

Industrial and Geological reference materials 2013
2013年工业地质标样目录

Aluminum intermediates 铝生产线中的标样

Alumina 矾土

| 编号 | 描述 | | Al2O3 | B2O3 | Be | CaO | Cr2O3 | CuO | Fe | Fe2O3 | Fe (tot)* | Ga2O3 | K2O | Li2O | LOI | 规格 |
|-------------|---------|-----|-------|----------|----------|-------|--------|----------|------|-------|-----------|-------|---------|-------|--------|------------|
| CERAM AN25 | Alumina | RM | 99.39 | | | 0.03 | | | | 0.03 | | | 0.01 | | (0.34) | 25g / 100g |
| CERAM AN26 | Alumina | RM | 99.76 | | | 0.03 | | | | 0.03 | | | <0.01 | | (0.08) | 25g / 100g |
| CERAM AN27 | Alumina | RM | 99.76 | | | 0.03 | | | | 0.02 | | | <0.01 | | | 25g / 100g |
| NCS DC62107 | Alumina | CRM | 83.90 | | | 0.99 | | | | 3.91 | | | 0.38 | | 0.44 | 20g |
| NIST-699 | Alumina | CRM | | (<0.001) | 0.000281 | 0.036 | 0.0002 | (0.0005) | | | 0.013 | 0.010 | (0.005) | 0.002 | | 60g |
| VS-W12/3 | Alumina | CRM | 73.6 | | | 18.8 | 0.46 | | 0.66 | | | | | | | 100g |

| 编号 | LOI (1000° C) | LOI (1200° C) | MgO | MnO | Na2O | P | P2O5 | SiO2 | TiO2 | V2O5 | ZnO | ZrO2 |
|-------------|---------------|---------------|--------|--------|------|--------|-------|--------|---------|--------|-------|----------|
| CERAM AN25 | | | <0.01 | | 0.53 | | <0.01 | <0.01 | <0.01 | | | |
| CERAM AN26 | | | <0.01 | | 0.02 | | | 0.12 | <0.01 | | | |
| CERAM AN27 | | | <0.01 | | 0.08 | | | 0.08 | <0.01 | | | |
| NCS DC62107 | | | 0.46 | | 0.11 | | | 4.97 | 4.19 | | | |
| NIST-699 | 0.69 | 0.86 | 0.0006 | 0.0005 | 0.59 | 0.0002 | | 0.0120 | (0.001) | 0.0005 | 0.013 | (0.0002) |
| VS-W12/3 | | | 2.15 | | | | | 0.76 | | | | |

| 编号 | 描述 | | B2O3 | CaO | Cl | CuO | Fe2O3 | Ga2O3 | K2O | LOI | MgO | Na2O | NiO | SO3 | SiO2 | 规格 |
|-------------|---------|-----|-----------|--------|-----------|-----------|----------|--------|----------|-------|-----------|--------|-----------|-----------|--------|-----|
| SEI-JCR034* | Alumina | CRM | (<0.0006) | 0.0002 | (<0.0004) | (<0.0003) | (0.0003) | 0.0021 | 0.0020 | 0.188 | (<0.0001) | 0.0018 | (<0.0004) | (<0.0007) | 0.0045 | 50g |
| SEI-JCR035* | Alumina | CRM | (<0.0006) | 0.0188 | (<0.0004) | 0.0018 | 0.0151 | 0.0074 | 0.0005 | 0.156 | 0.0013 | 0.222 | (<0.0004) | (0.0011) | 0.0116 | 50g |
| SEI-JCR036* | Alumina | CRM | 0.0533 | 0.0242 | (<0.0004) | (<0.0003) | 0.0139 | 0.0076 | (0.0002) | 0.072 | 0.0006 | 0.0316 | (<0.0004) | (<0.0007) | 0.0569 | 50g |

| 编号 | SrO | TiO2 | ZnO | ZrO2 |
|-------------|-----------|-----------|-----------|-----------|
| SEI-JCR034* | (<0.0001) | (<0.0004) | (<0.0002) | (<0.0002) |
| SEI-JCR035* | 0.0007 | 0.0029 | 0.0012 | 0.0009 |
| SEI-JCR036* | 0.0002 | 0.0032 | 0.0007 | 0.0004 |

* set SEI-JCR034-036 only

| 编号 | 描述 | | CaO | Fe2O3 | Ga2O3 | LOM | Na2O | P2O5 | SO3 | SiO2 | TiO2 | V2O5 | ZnO | 规格 |
|--------------|---------|-----|-------|-------|---------|------|------|--------|------|-------|-------|-------|---------|------|
| ALCAN-ALU01 | Alumina | CRM | 0.017 | 0.016 | 0.011 | 1.2 | 0.27 | 0.005 | 0.12 | 0.013 | 0.004 | 0.002 | 0.001 | 100g |
| ALCAN-ALU03 | Alumina | CRM | 0.010 | 0.011 | 0.009 | 0.77 | 0.44 | | 0.05 | 0.010 | 0.006 | 0.001 | 0.001 | 100g |
| ALCAN-ALU04 | Alumina | CRM | 0.020 | 0.017 | 0.009 | 0.49 | 0.46 | | 0.07 | 0.021 | 0.009 | 0.003 | 0.001 | 100g |
| ALCAN-ALU05 | Alumina | CRM | 0.033 | 0.008 | 0.007 | 0.83 | 0.37 | | 0.13 | 0.014 | 0.002 | 0.001 | 0.010 | 100g |
| ALCAN-ALU06 | Alumina | CRM | 0.043 | 0.008 | 0.005 | 1.31 | 0.36 | | 0.11 | 0.017 | 0.001 | 0.001 | 0.009 | 100g |
| ALCAN-ALU07 | Alumina | CRM | 0.049 | 0.023 | 0.006 | 0.89 | 0.46 | | 0.17 | 0.025 | 0.004 | 0.004 | 0.001 | 100g |
| ALCAN-ALU08 | Alumina | CRM | 0.008 | 0.022 | 0.0014 | 0.57 | 0.42 | | 0.09 | 0.007 | 0.002 | 0.003 | 0.001 | 100g |
| ALCAN-ALU09 | Alumina | CRM | 0.026 | 0.008 | 0.009 | 0.60 | 0.42 | 0.0002 | 0.08 | 0.018 | 0.002 | 0.001 | 0.001 | 100g |
| ALCAN-BU(CA) | Alumina | CRM | | 0.034 | 0.016 | | 0.74 | 0.0005 | 0.17 | 0.024 | 0.001 | 0.01 | (0.001) | 100g |
| ALCAN-BW(CA) | Alumina | CRM | | 0.038 | (0.015) | | 0.86 | | 0.27 | 0.028 | 0.006 | 0.006 | 0.001 | 100g |

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| 编号 | 描述 | F | 规格 |
|-----------|------------------|-----------|------|
| ALCAN-CDH | Scrubber alumina | CRM 0.074 | 100g |

Alumina continued 矾土

| 编号 | 描述 | A.I. | AOR | Air.perm. | CaO | D.I. | Fe2O3 | Ga2O3 | LOM | Max.dens. | Min.dens. | Na2O | 规格 |
|-------------|---------|------|------|-----------|-------|------|--------|--------|------|-----------|-----------|------|------|
| ALCAN-ALU10 | Alumina | CRM | 29.4 | | 0.004 | 0.54 | 0.015 | 0.013 | 0.6 | 1.19 | 0.967 | 0.37 | 100g |
| ALCAN-ALU11 | Alumina | CRM | 11.2 | | 0.017 | | 0.0097 | 0.0139 | 0.81 | | | 0.42 | 100g |
| ALCAN-ALU12 | Alumina | CRM | 27.2 | | 0.033 | | 0.0063 | 0.0057 | 1.02 | | | 0.36 | 100g |
| ALCAN-ALU87 | Alumina | CRM | (1) | 33.6 | 4.3 | | | | | 1.15 | 0.96 | | 100g |

| 编号 | P2O5 | SO3 | SSA | SiO2 | TiO2 | V2O5 | ZnO | a-Alumina |
|-------------|--------|-------|-------|--------|--------|--------|--------|-----------|
| ALCAN-ALU10 | 0.002 | 0.08 | 55.60 | 0.005 | 0.002 | 0.002 | | |
| ALCAN-ALU11 | 0.0002 | 0.03 | 70.30 | 0.0056 | 0.0010 | 0.0005 | 0.0086 | |
| ALCAN-ALU12 | 0.0015 | 0.185 | 82.90 | 0.021 | 0.0009 | 0.0021 | 0.0094 | 14.3 |
| ALCAN-ALU87 | | | | | | | | |

Aluminum oxide 氧化铝

| 编号 | 描述 | Al2O3 | As | B | Ba | Be | Ca | Cd | Ce | Cl | Co | Cr | 规格 | |
|----------|----------------|---------|-----------|------------|------------|------------|------------|---------|------------|------------|-----------|---------|----------|------|
| BAM-RS 2 | Aluminum Oxide | CRM | 99.76 | (<0.00005) | (<0.00005) | (<0.00005) | (<0.00002) | 0.00031 | (<0.00002) | (<0.00001) | (<0.0010) | <0.0001 | <0.00015 | 100g |
| 编号 | Cu | Fe | Ga | In | K | La | Li | Mg | Mn | Mo | Na | | | |
| BAM-RS 2 | <0.00025 | 0.00033 | (<0.0002) | (<0.00005) | (<0.0005) | (<0.00003) | (<0.0001) | <0.0003 | <0.00015 | (<0.0001) | <0.0015 | | | |
| 编号 | Ni | Si | Sn | Ti | V | Zn | Zr | | | | | | | |
| BAM-RS 2 | <0.0010 | <0.0020 | (<0.0001) | <0.0002 | (<0.0001) | <0.0002 | 0.00032 | | | | | | | |

Aluminum fluoride 氟化铝

| 编号 | 描述 | Ca | F | Fe | Na | P | S | Si | 规格 | |
|---------------|-------------------|-----|-------|--------|-------|------|--------|------|------|------|
| ALCAN-ALF01 | Aluminum fluoride | CRM | 0.017 | (62.0) | 0.009 | 0.32 | 0.010 | 0.28 | 0.07 | 100g |
| ALCAN-ALF02 | Aluminum fluoride | CRM | 0.014 | (63.0) | 0.01 | 0.26 | 0.010 | 0.26 | 0.13 | 100g |
| ALCAN-ALF03 | Aluminum fluoride | CRM | 0.014 | (64.3) | 0.009 | 0.27 | 0.009 | 0.25 | 0.12 | 100g |
| ALCAN-ALF04 | Aluminum fluoride | CRM | 0.016 | (63.0) | 0.007 | 0.29 | 0.009 | 0.31 | 0.10 | 100g |
| ALCAN-ALF05 | Aluminum fluoride | CRM | 0.015 | (63.3) | 0.006 | 0.29 | 0.006 | 0.10 | 0.09 | 100g |
| ALCAN-CAB(AF) | Aluminum fluoride | CRM | 0.024 | 57.2 | 0.056 | 1.00 | 0.0026 | 0.16 | 0.42 | 100g |
| ALCAN-CAC(AF) | Aluminum fluoride | CRM | 0.024 | 61.8 | 0.049 | 0.92 | 0.0017 | 0.20 | 0.68 | 100g |
| ALCAN-CAN(AF) | Aluminum fluoride | CRM | 0.16 | (62.4) | 0.018 | 0.22 | 0.009 | 0.23 | 0.10 | 100g |
| ALCAN-CAO(AF) | Aluminum fluoride | CRM | 0.18 | (57.7) | 0.020 | 0.69 | 0.004 | 0.13 | | 100g |

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Bauxite 铝土矿

| 编号 | 描述 | Al ₂ O ₃ | As | Ba | Be | Bi | CO ₂ | CaO | Ce | Co | Cr | Cs | 规格 | |
|-----------|---------|--------------------------------|-------------------|-------------------|-----------|-----------|--------------------------------|------------------------------------|--------|------------------|---------|-----------|-----------|-----|
| CRPG-BX-N | Bauxite | CRM | 54.21 | 0.0115 | 0.0030 | 0.00055 | (0.00017) | 0.44 | 0.17 | 0.0520 | 0.0030 | 0.0280 | (0.00004) | 30g |
| 编号 | | Cu | Dy | Er | Eu | F | Fe ₂ O ₃ | Fe ₂ O ₃ (T) | FeO | Ga | Gd | Ge | | |
| CRPG-BX-N | | 0.0018 | (0.00185) | (0.0011) | 0.00044 | (0.0900) | 22.88 | 23.17 | 0.26 | 0.0067 | 0.0020 | (0.00011) | | |
| 编号 | | H ₂ O+ | H ₂ O- | Hf | Ho | In | K ₂ O | LOI | La | Li | Lu | MgO | | |
| CRPG-BX-N | | 11.48 | 0.44 | 0.00152 | (0.00041) | (0.00003) | 0.05 | 12.17 | 0.0355 | 0.0039 | 0.00018 | 0.11 | | |
| 编号 | | MnO | Mo | Na ₂ O | Nb | Nd | Ni | P ₂ O ₅ | Pb | Pr | Rb | Sb | | |
| CRPG-BX-N | | 0.05 | 0.00083 | 0.04 | 0.0052 | 0.0163 | 0.0180 | 0.13 | 0.0135 | (0.0054) | 0.00036 | 0.0008 | | |
| 编号 | | Sc | SiO ₂ | Sm | Sn | Sr | Ta | Tb | Th | TiO ₂ | Tm | U | | |
| CRPG-BX-N | | 0.0060 | 7.40 | 0.0022 | 0.00134 | 0.0110 | 0.00046 | 0.0003 | 0.0050 | 2.37 | 0.00017 | 0.00088 | | |
| 编号 | | V | W | Y | Yb | Zn | Zr | | | | | | | |
| CRPG-BX-N | | 0.0350 | (0.0009) | 0.0114 | 0.00116 | 0.0080 | 0.0550 | | | | | | | |

| 编号 | 描述 | Al ₂ O ₃ | C (org) | CaO | Cr ₂ O ₃ | CuO | Fe ₂ O ₃ | Ga ₂ O ₃ | K ₂ O | LOI (1000) | LOI (1075) | MgO | 规格 | |
|--------------|---------|--------------------------------|------------------|-------------------|--------------------------------|-----------------|--------------------------------|--------------------------------|-------------------------------|-------------|------------------|-------------------|-----------------|------|
| CETEM BXGO-1 | Bauxite | CRM | 60.7 | (0.12) | (0.02) | 0.010 | (0.0002) | 4.6 | (0.006) | (0.004) | 33.3 | 33.1 | (0.03) | 120g |
| CETEM BXMG-1 | Bauxite | CRM | 50.1 | (0.13) | (0.01) | 0.050 | (0.008) | 17.4 | (0.008) | (0.005) | 26.8 | 26.9 | (0.05) | 120g |
| CETEM BXMG-2 | Bauxite | CRM | 50.4 | (0.10) | (0.01) | 0.028 | (0.004) | 13.7 | (0.008) | 0.013 | 27.5 | 27.6 | (0.04) | 135g |
| CETEM BXMG-3 | Bauxite | CRM | 37.9 | (0.39) | (0.02) | 0.029 | (0.003) | 35.3 | (0.010) | 0.021 | 22.0 | 22.2 | (0.04) | 100g |
| CETEM BXMG-4 | Bauxite | CRM | 50.4 | (0.27) | (0.03) | (0.002) | (0.0008) | 9.9 | (0.011) | 0.77 | 26.3 | 26.4 | (0.04) | 100g |
| CETEM BXMG-5 | Bauxite | CRM | 50.5 | (0.50) | (0.02) | (0.004) | (0.0008) | 9.2 | (0.011) | 0.54 | 26.7 | 26.8 | (0.04) | 100g |
| CETEM BXPA-1 | Bauxite | CRM | 52.8 | | | | | 12.8 | | | 27.5 | | | 140g |
| CETEM BXPA-2 | Bauxite | CRM | 55.4 | (0.05) | (0.01) | 0.013 | (0.0006) | 9.2 | (0.01) | (0.0000004) | 29.0 | 29.1 | (0.03) | 100g |
| CETEM BXPA-3 | Bauxite | CRM | 53.7 | (0.06) | (0.01) | 0.016 | (0.001) | 11.6 | (0.010) | (0.011) | 28.2 | 28.3 | (0.03) | 100g |
| CETEM BXPA-4 | Bauxite | CRM | 57.3 | (0.05) | (0.01) | 0.007 | (0.0008) | 6.9 | (0.009) | (0.009) | 29.7 | 29.8 | (0.03) | 100g |
| CETEM BXSP-1 | Bauxite | CRM | 50.1 | (0.64) | (0.03) | 0.003 | (0.001) | 6.7 | (0.010) | 0.53 | 26.1 | 26.2 | (0.06) | 100g |
| 编号 | | MnO | MnO ₂ | Na ₂ O | P ₂ O ₅ | SO ₃ | SiO ₂ | TiO ₂ | V ₂ O ₅ | ZnO | ZrO ₂ | Available alumina | Reactive Silica | |
| CETEM BXGO-1 | | | 0.005 | (0.006) | 0.042 | (0.22) | 0.63 | 0.46 | 0.017 | (0.002) | (0.003) | 59.3 | 0.52 | |

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| CETEM BXMG-1 | | 0.025 | (0.02) | 0.228 | (0.19) | 3.10 | 2.11 | 0.069 | 0.006 | 0.029 | 44.1 | 1.16 |
| CETEM BXMG-2 | | 0.016 | (0.01) | 0.209 | (0.15) | 6.36 | 1.64 | 0.035 | (0.004) | 0.042 | 45.5 | 1.88 |
| CETEM BXMG-3 | | 0.102 | (0.02) | 0.184 | (0.13) | 2.29 | 2.01 | 0.051 | (0.005) | 0.050 | 33.2 | 0.75 |
| CETEM BXMG-4 | | 0.34 | (0.04) | 0.144 | (0.06) | 9.5 | 1.78 | 0.035 | 0.014 | 0.24 | 40.7 | 5.9 |
| CETEM BXMG-5 | | 0.34 | (0.03) | 0.111 | (0.05) | 10.7 | 1.28 | 0.030 | 0.012 | 0.25 | 39.7 | 7.8 |
| CETEM BXPA-1 | (0.0017) | | | (0.018) | | (4.93) | 1.42 | 0.058 | 0.004 | (0.066) | 49.0 | 3.8 |
| CETEM BXPA-2 | | (0.0013) | (0.01) | 0.016 | (0.07) | 4.91 | 1.35 | 0.035 | (0.003) | 0.073 | 50.6 | 4.2 |
| CETEM BXPA-3 | | 0.045 | (0.02) | 0.042 | (0.09) | 4.19 | 1.92 | 0.029 | (0.003) | 0.21 | 49.8 | 3.4 |
| CETEM BXPA-4 | | 0.037 | (0.02) | 0.027 | (0.05) | 4.65 | 1.31 | 0.018 | (0.002) | 0.16 | 52.7 | 3.7 |
| CETEM BXSP-1 | | 0.070 | (0.02) | 0.203 | (0.07) | 14.7 | 1.24 | 0.016 | 0.009 | 0.15 | 40.0 | 7.8 |

Bauxite continued 铝土矿

| 编号 | 描述 | Al ₂ O ₃ | BaO | CaO | Ce | Co | Cr ₂ O ₃ | CuO | Fe ₂ O ₃ | Ga ₂ O ₃ | Hf | K ₂ O | LOI (1000) | MgO | 规格 |
|----------|-------------|--------------------------------|---------|-------|----------|-----------|--------------------------------|---------|--------------------------------|--------------------------------|----------|------------------|------------|-------|-----|
| NIST-600 | Bauxite CRM | 40.0 | | 0.22 | | | 0.024 | (0.002) | 17.0 | (0.01) | | 0.23 | 20.5 | 0.05 | 90g |
| NIST-696 | Bauxite CRM | 54.5 | (0.004) | 0.018 | (0.0041) | (0.00009) | 0.047 | | 8.70 | | (0.0032) | 0.009 | 29.9 | 0.012 | 60g |
| NIST-697 | Bauxite CRM | 45.8 | | 0.71 | | | 0.100 | | 20.0 | | | 0.062 | 22.1 | 0.18 | 60g |
| NIST-698 | Bauxite CRM | 48.2 | | 0.62 | | | 0.080 | | 19.6 | | | 0.010 | 27.3 | 0.058 | 60g |
| NIST-69b | Bauxite CRM | 48.8 | (0.008) | 0.13 | (0.024) | (0.0001) | 0.011 | | 7.14 | | (0.0063) | 0.068 | 27.2 | 0.085 | 60g |

| 编号 | MnO | Na ₂ O | P ₂ O ₅ | SO ₃ | Sc | Se | SiO ₂ | TiO ₂ | V ₂ O ₅ | ZnO | ZrO ₂ |
|----------|-------|-------------------|-------------------------------|-----------------|----------|----------|------------------|------------------|-------------------------------|--------|------------------|
| NIST-600 | 0.013 | 0.022 | 0.039 | 0.155 | | | 20.3 | 1.31 | 0.060 | 0.003 | 0.060 |
| NIST-696 | 0.004 | (0.007) | 0.050 | 0.150 | | (0.0008) | 3.79 | 2.64 | 0.072 | 0.0014 | 0.14 |
| NIST-697 | 0.41 | | 0.97 | 0.0770 | | | 6.81 | 2.52 | 0.063 | 0.037 | 0.065 |
| NIST-698 | 0.38 | | 0.37 | 0.143 | | | 0.69 | 2.38 | 0.064 | 0.029 | 0.061 |
| NIST-69b | 0.110 | (0.025) | 0.118 | 0.551 | (0.0008) | | 13.43 | 1.90 | 0.028 | 0.0035 | 0.29 |

| 编号 | 描述 | Al ₂ O ₃ | BaO | CaO | Cr ₂ O ₃ | Fe ₂ O ₃ | K ₂ O | Li ₂ O | LOI (1000) | MgO | MnO | Mn ₂ O ₃ | Mn ₃ O ₄ | Na ₂ O | 规格 |
|-----------------|-------------|--------------------------------|--------|-------|--------------------------------|--------------------------------|------------------|-------------------|------------|------|------|--------------------------------|--------------------------------|-------------------|------------|
| BAS-BCS-CRM 395 | Bauxite CRM | 52.4 | | 0.05 | (0.07) | 16.3 | (0.02) | | 27.8 | 0.02 | | (0.004) | | (0.02) | 100g |
| CERAM 2CAS2 | Bauxite RM | 88.9 | | 0.09 | | 1.82 | 0.04 | | 0.10 | 0.06 | | | | 0.04 | 25g / 100g |
| CERAM AN29 | Bauxite RM | 88.3 | (0.01) | 0.01 | 0.07 | 1.75 | 0.01 | <0.01 | 0.04 | 0.09 | | | (0.01) | 0.03 | 25g / 100g |
| IPT-131 | Bauxite CRM | 54.1 | | | | 11.5 | 0.022 | | 30.0 | | 0.31 | | | | 70g |
| SEI-JCR301 | Bauxite CRM | 87.5 | | 0.03 | | 1.40 | 0.04 | | 0.35 | 0.02 | | | | 0.03 | 100g |
| SEI-JCR302 | Bauxite CRM | 90.6 | | 0.02 | | 1.76 | 0.02 | | 0.22 | 0.03 | | | | 0.02 | 100g |
| SEI-JCR303* | Bauxite CRM | 89.49 | | 0.012 | | 1.51 | | | 0.006 | | | | | | 100g |
| NCS DC61105 | Bauxite CRM | 85.07 | | 0.24 | | 1.18 | 0.44 | | 0.29 | 0.21 | | | | 0.080 | 50g |

| 编号 | P ₂ O ₅ | SiO ₂ | TiO ₂ | V ₂ O ₅ | ZnO | ZrO ₂ |
|-----------------|-------------------------------|------------------|------------------|-------------------------------|-------|------------------|
| BAS-BCS-CRM 395 | | 1.24 | 1.93 | | | |
| CERAM 2CAS2 | | 5.66 | 3.06 | | | |
| CERAM AN29 | 0.06 | 6.15 | 3.44 | | | 0.15 |
| IPT-131 | 0.15 | 0.78 | 1.77 | 0.042 | 0.013 | 0.35 |

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|-------------|-------|------|------|---------|
| SEI-JCR301 | 0.07 | 7.24 | 2.90 | 0.13** |
| SEI-JCR302 | 0.05 | 3.45 | 3.17 | 0.30** |
| SEI-JCR303 | 0.064 | 5.55 | 2.93 | 0.110** |
| NCS DC61105 | | 8.17 | 3.76 | |

* 代表只能成套销售 SEI-JCR041-304

** 代表 HfO₂的含量

Bauxite continued 铝土矿

| 编号 | 描述 | | Al (150) | Al (225) | Al ₂ O ₃ | Al ₂ O ₃ (ex) | C (org.) | CaO | Cr ₂ O ₃ | Fe ₂ O ₃ | K ₂ O | LOM | MgO | MnO ₂ | Na ₂ O | 规格 |
|--------------|---------|-----|----------|----------|--------------------------------|-------------------------------------|----------|-------|--------------------------------|--------------------------------|------------------|-------|-------|------------------|-------------------|------|
| ALCAN-BXT-02 | Bauxite | CRM | 46.5 | 49.5 | 50.9 | | 0.07 | 0.04 | 0.068 | 17.8 | 0.01 | 27.0 | 0.09 | 0.01 | 0.04 | 100g |
| ALCAN-BXT-04 | Bauxite | CRM | 42.5 | 46.3 | 48.5 | | 0.12 | 0.02 | 0.090 | 17.0 | 0.03 | 25.7 | 0.05 | 0.04 | 0.02 | 100g |
| ALCAN-BXT-05 | Bauxite | CRM | 42.4 | 44.5 | 46.8 | | 0.28 | 1.13 | 0.108 | 19.2 | 0.01 | 27.2 | 0.08 | 0.32 | 0.03 | 100g |
| ALCAN-BXT-06 | Bauxite | CRM | 45.5 | 47.4 | 48.7 | | 0.14 | 0.13 | 0.134 | 18.9 | 0.01 | 27.2 | 0.06 | 0.27 | 0.03 | 100g |
| ALCAN-BXT-08 | Bauxite | CRM | 41.7 | 48.5 | 51.5 | | 0.07 | 0.02 | 0.048 | 9.6 | 0.02 | 25.6 | 0.04 | 0.02 | 0.02 | 100g |
| ALCAN-BXT-09 | Bauxite | CRM | 26.4 | 46.5 | 53.4 | | 0.20 | 0.01 | 0.037 | 14.5 | 0.01 | 20.8 | 0.002 | 0.03 | 0.01 | 100g |
| ALCAN-BXT-10 | Bauxite | CRM | 51 | 52 | 54 | | 0.08 | 0.01 | 0.03 | 12.4 | 0.01 | 28.6 | | 0.01 | | 100g |
| ALCAN-BXT-11 | Bauxite | CRM | 44.6 | 51.8 | 54.2 | | 0.11 | 0.01 | 0.10 | 12.8 | 0.02 | 27.4 | 0.03 | 0.01 | 0.03 | 100g |
| ALCAN-BXT-12 | Bauxite | CRM | 45.4 | 48.4 | 50.67 | 49.1 | 0.243 | 0.012 | 0.031 | 15.9 | 0.011 | 26.13 | 0.037 | | 0.02 | 100g |
| ALCAN-BXT-13 | Bauxite | CRM | 49.2 | 53.3 | 53.4 | 53.3 | 0.051 | 0.02 | 0.016 | 11.44 | 0.01 | 28.52 | 0.01 | 0.01 | 0.01 | 100g |
| ALCAN-BXT-14 | Bauxite | CRM | 49.0 | 46.0 | 51.2 | 50.4 | 0.162 | 0.01 | 0.01 | 13.17 | 0.01 | 28.35 | 0.01 | 0.02 | 0.01 | 100g |
| ALCAN-BXT-15 | Bauxite | CRM | | | 51.1 | | | 3.34 | 0.20 | 24.9 | 0.040 | 12.20 | 0.16 | 0.020 | | 100g |

| 编号 | P ₂ O ₅ | SO ₃ | Si (150) | Si (225) | SiO ₂ | TiO ₂ | V ₂ O ₅ | ZnO | ZrO |
|--------------|-------------------------------|-----------------|----------|----------|------------------|------------------|-------------------------------|--------|-------|
| ALCAN-BXT-02 | 0.15 | 0.08 | 1.1 | 1.3 | 1.56 | 1.87 | 0.06 | 0.009 | 0.05 |
| ALCAN-BXT-04 | 0.13 | 0.13 | 2.3 | 2.5 | 2.68 | 5.32 | 0.19 | 0.003 | 0.06 |
| ALCAN-BXT-05 | 0.38 | 0.21 | 1.5 | 1.7 | 1.98 | 2.25 | 0.11 | 0.026 | 0.06 |
| ALCAN-BXT-06 | 0.61 | 0.15 | 0.5 | 0.7 | 0.80 | 2.67 | 0.13 | 0.023 | 0.07 |
| ALCAN-BXT-08 | 0.26 | | 2.9 | 3.0 | 3.17 | 9.41 | 0.19 | 0.006 | 0.10 |
| ALCAN-BXT-09 | 0.07 | 0.06 | 5.9 | 6.8 | 7.57 | 2.98 | 0.06 | 0.04 | 0.12 |
| ALCAN-BXT-10 | 0.05 | | 2.0 | 2.4 | 2.7 | 2.01 | 0.06 | | 0.07 |
| ALCAN-BXT-11 | 0.15 | | 0.8 | 1.1 | 1.49 | 3.39 | 0.11 | 0.003 | 0.08 |
| ALCAN-BXT-12 | 0.067 | 0.14 | 2.76 | 3.64 | 3.58 | 3.18 | 0.088 | 0.0021 | 0.138 |

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|--------------|-------|------|-----|-----|------|------|-------|-------|-------|
| ALCAN-BXT-13 | 0.02 | 0.09 | 4.2 | 4.5 | 4.82 | 1.54 | 0.04 | 0.002 | 0.08 |
| ALCAN-BXT-14 | 0.062 | 0.11 | 1.1 | 5.2 | 5.86 | 1.11 | 0.01 | 0.005 | 0.131 |
| ALCAN-BXT-15 | 0.053 | | | | 3.09 | 3.83 | 0.089 | 0.005 | 0.089 |

Cryolite冰晶石

| 编号 | 描述 | | LOI | Al | CaO | F | Fe2O3 | Na | P2O5 | SO4 | SiO2 | 规格 |
|-------------|----------|-----|------|-------|---------|-------|--------|-------|--------|-------|-------|------|
| NCS DC91001 | Cryolite | CRM | 4.53 | 17.34 | (0.606) | 55.45 | 0.053 | 21.75 | 0.0034 | 0.233 | 0.087 | 100g |
| NCS DC91002 | Cryolite | CRM | 2.97 | 15.18 | (0.597) | 54.66 | 0.032 | 26.32 | 0.025 | 0.199 | 0.211 | 100g |
| NCS DC91003 | Cryolite | CRM | 2.25 | 13.65 | (0.719) | 53.89 | 0.036 | 29.29 | 0.013 | 0.205 | 0.363 | 100g |
| NCS DC91004 | Cryolite | CRM | 2.12 | 13.16 | (0.508) | 53.2 | 0.033 | 30.26 | 0.037 | 0.293 | 0.389 | 100g |
| NCS DC91005 | Cryolite | CRM | 1.4 | 12.69 | (0.062) | 52.14 | 0.0098 | 32.01 | 0.065 | 0.45 | 0.485 | 100g |
| NCS DC91006 | Cryolite | CRM | 1.6 | 11.75 | 0.112 | 51.21 | 0.04 | 33.24 | 0.051 | 0.683 | 0.238 | 100g |

| 编号 | 描述 | | Al | F | Fe | Na | S | Si | 规格 |
|--------------|----------|-----|------|------|-------|------|------|-------|------|
| ALCAN-CAA(C) | Cryolite | CRM | 13.5 | 40.5 | 0.053 | 30.6 | 1.71 | 0.26 | 100g |
| ALCAN-CAB(C) | Cryolite | CRM | 11.9 | 44.3 | 0.067 | 30.1 | 2.59 | 0.16 | 100g |
| ALCAN-CAC(C) | Cryolite | CRM | 11.9 | 44.7 | 0.039 | 32.9 | 2.16 | 0.24 | 100g |
| ALCAN-CAG(C) | Cryolite | CRM | 12.2 | 47.7 | 0.013 | 31.9 | 1.28 | 0.035 | 100g |

Electrolytic bath铝电解液

| 编号 | 描述 | | Al(alpha) | Al(free) | CaF2 | Ex.AIF3 | MgF2 | NaCl | NaF/AIF3 | 规格 |
|---------------|-------------------|-----|-----------|----------|------|---------|------|--------|----------|------|
| ALCAN-BA01 | Electrolytic bath | CRM | 1.5 | 7.0 | 6.2 | 12.4 | | | 1.06 | 100g |
| ALCAN-BA02 | Electrolytic bath | CRM | 0.3 | 2.7 | 5.7 | 10.8 | | | 1.12 | 100g |
| ALCAN-BA03 | Electrolytic bath | CRM | | 4.1 | 5.7 | 0.9 | | | 1.46 | 100g |
| ALCAN-BA05 | Electrolytic bath | CRM | 17.3 | 23.6 | 4.5 | 11.3 | | | 1.02 | 100g |
| ALCAN-BA06 | Electrolytic bath | CRM | 16.7 | 23.3 | 4.5 | 12.2 | | (0.25) | 1.00 | 100g |
| ALCAN-BA07 | Electrolytic bath | CRM | 5.3 | 6.8 | 8.3 | 6.9 | | | 1.23 | 100g |
| ALCAN-BA08 | Electrolytic bath | CRM | 4.6 | 7.3 | 9.0 | 3.2 | | | 1.37 | 100g |
| ALCAN-BA09 | Electrolytic bath | CRM | 5.8 | 7.8 | 9.5 | 1.3 | | | 1.44 | 100g |
| ALCAN-BA10 | Electrolytic bath | CRM | 4.9 | 6.0 | 6.7 | 5.2 | | | 1.30 | 100g |
| ALCAN-BA11 | Electrolytic bath | CRM | 2.9 | 5.3 | 8.1 | 1.06 | | | 1.46 | 100g |
| ALCAN-CCB(EB) | Electrolytic bath | CRM | | 2.6 | 21.3 | (3.9) | 0.19 | | 1.71 | 100g |
| ALCAN-CCE(EB) | Electrolytic bath | CRM | | 10.6 | 4.0 | (0.2) | 0.19 | | 1.51 | 100g |

| 编号 | 描述 | | Al(alpha) | Al(free) | CaF2 | Ex.AIF3 | LiF | MgF2 | NaCl | 规格 |
|-------------|--------------|-----|-----------|----------|------|---------|------|------|------|------|
| ALCAN-BA12* | Lithium bath | CRM | 2.8 | 4.2 | 6.0 | 3.8 | 2.72 | 0.21 | | 100g |
| ALCAN-BA13* | Lithium bath | CRM | 0.7 | 4.2 | 5.4 | 0.6 | 2.47 | 0.24 | | 100g |

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|-------------|--------------|-----|-----|-----|------|-----|------|------|--------|--|--|--|------|
| ALCAN-BA14* | Lithium bath | CRM | 1.9 | 3.3 | 3.65 | 1.4 | 2.04 | 3.40 | (0.25) | | | | 100g |
| ALCAN-BA15* | Lithium bath | CRM | 4.4 | 6.0 | 6.9 | 5.7 | 0.95 | 0.28 | | | | | 100g |
| ALCAN-BA16* | Lithium bath | CRM | 3.3 | 4.0 | 6.3 | 3.7 | 3.08 | 0.22 | | | | | 100g |
| ALCAN-BA17* | Lithium bath | CRM | 3.4 | 5.1 | 5.4 | 0.6 | 2.61 | 0.16 | (0.25) | | | | 100g |

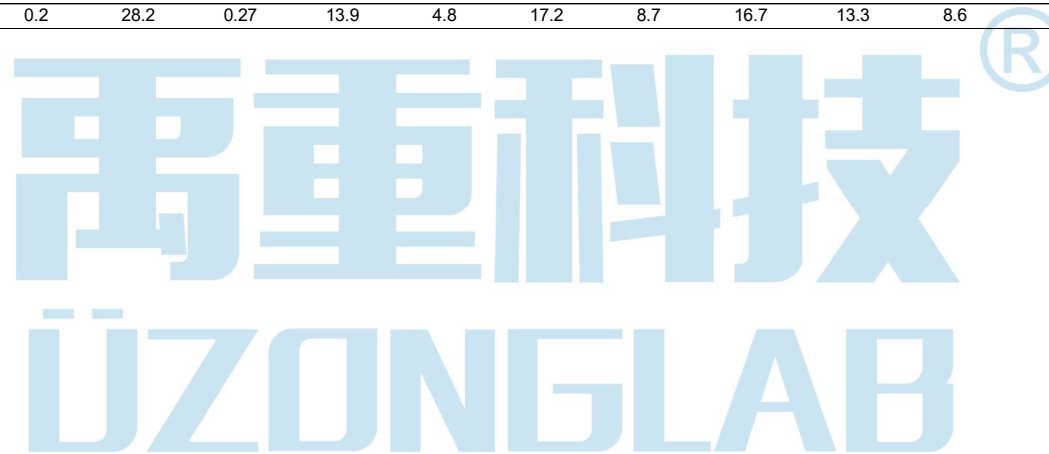
* Not for XRD

Red mud红泥

| 编号 | 描述 | | Al (gibb) | Al2O3 | C (org.) | CaO | Fe2O3 | LOM | Na2O | SiO2 | T.E.A. | TiO2 | 规格 |
|-------------|---------|-----|-----------|-------|----------|------|-------|------|------|------|--------|------|------|
| ALCAN-RM-01 | Red mud | CRM | 0.6 | 16.8 | 0.36 | 3.5 | 53.8 | 12.0 | 1.4 | 5.4 | 4.6 | 5.9 | 100g |
| ALCAN-RM-02 | Red mud | CRM | 1.9 | 13.9 | 0.16 | 11.2 | 30.7 | 8.4 | 3.0 | 6.2 | 5.7 | 22.6 | 100g |
| ALCAN-RM-04 | Red mud | CRM | 1.2 | 20.6 | 0.43 | 7.7 | 29.0 | 12.7 | 6.8 | 13.9 | 6.6 | 6.0 | 100g |
| ALCAN-RM-05 | Red mud | CRM | 1.7 | 21.9 | 0.22 | 0.9 | 35.6 | 8.9 | 8.3 | 15.7 | 6.9 | 7.1 | 100g |
| ALCAN-RM-08 | Red mud | CRM | 0.2 | 28.2 | 0.27 | 13.9 | 4.8 | 17.2 | 8.7 | 16.7 | 13.3 | 8.6 | 100g |

Al (gibb) = gibbsitic alumina

T.E.A. = Total extractable alumina



Cement水泥

Cement水泥

| 编号 | 描述 | | Al2O3 | BaO | CaO | CaO (free) | Cl | Cr2O3 | F | Fe2O3 | Ins.Res. | K2O | LOI (950) | LOI (20-45) | LOI (45-220) | 规格 |
|--------------|----------------------------|-----|-------|---------|-------|------------|----------|-----------|----------|-------|----------|-------|-----------|-------------|--------------|------|
| NIST-1880B | Portland cement, black | CRM | 5.183 | | 64.16 | (2.227) | 0.01830 | 0.01927 | (0.0539) | 3.681 | (0.487) | 0.646 | (1.666) | | | 4x5g |
| NIST-1881A | Portland cement, white | CRM | 7.060 | | 57.58 | | (0.013) | 0.0588 | (0.09) | 3.09 | (5.2) | 1.228 | (1.59) | | | 4x5g |
| NIST-1882A | Calcium aluminate cement | CRM | 39.14 | | 39.29 | | | (0.113) | | 14.67 | | 0.051 | (0.20) | | | 4x5g |
| NIST-1883A | Calcium aluminate cement | CRM | 70.04 | | 29.52 | | | (0.006) | | 0.078 | | 0.014 | (0.35) | | | 4x5g |
| NIST-1884B | Portland cement, ivory | CRM | 4.851 | | 61.31 | (0.418) | (0.0065) | 0.00791 | (0.0394) | 2.937 | (0.159) | 0.957 | (various) | | | 4x5g |
| NIST-1885A * | Portland cement, turquoise | CRM | 4.026 | | 62.39 | | (0.0040) | 0.0195 | (0.13) | 1.929 | (0.22) | 0.206 | (1.68) | | | 4x5g |
| NIST-1886A | Portland cement, cranberry | CRM | 3.875 | | 67.87 | | (0.0042) | 0.0024 | (0.02) | 0.152 | (0.23) | 0.093 | (1.56) | | | 4x5g |
| NIST-1887B | Portland cement, brown | CRM | 4.911 | (0.022) | 61.15 | 0.21 | 0.01001 | 0.01551 | 0.101 | 2.471 | 0.26 | 0.961 | 2.121 | | | 4x5g |
| NIST-1888B | Portland cement, purple | CRM | 4.277 | | 63.13 | (1.42) | 0.0143 | (0.01021) | (0.048) | 3.062 | (0.32) | 0.658 | | (<0.04) | 0.573 | 4x5g |

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|------------|-----------------------|-----|------|-------|----------|--------|--------|-------|--------|-------|--------|--|--|--|--|--|------|
| NIST-1889A | Portland cement, gray | CRM | 3.89 | 65.34 | (0.0019) | 0.0072 | (0.05) | 1.937 | (0.66) | 0.605 | (3.28) | | | | | | 4x5g |
|------------|-----------------------|-----|------|-------|----------|--------|--------|-------|--------|-------|--------|--|--|--|--|--|------|

| 编号 | LOI (220-550) | LOI (550-950) | MgO | Mn2O3 | Na2O | P2O5 | S | SO3 | SiO2 | SrO | TiO2 | ZnO |
|--------------|------------------|------------------|-------|---------|--------|---------|---------------|-------|--------|----------|---------|-----------|
| NIST-1880B | | | 1.176 | 0.1981 | 0.0914 | 0.2443 | (0.0131) | 2.710 | 20.42 | (0.0272) | 0.236 | (0.01054) |
| NIST-1881A | | | 2.981 | 0.1042 | 0.199 | 0.1459 | | 3.366 | 22.26 | 0.036 | 0.3663 | 0.0489 |
| NIST-1882A | | | 0.51 | (0.060) | 0.021 | (0.070) | | | 4.01 | (0.024) | 1.786 | (0.004) |
| NIST-1883A | | | 0.19 | (0.003) | 0.30 | (0.003) | | | 0.24 | (0.019) | (0.020) | |
| NIST-1884B | | | 4.74 | 0.0750 | 0.278 | 0.0965 | | 4.034 | 19.30 | 0.0258 | 0.2651 | |
| NIST-1885A * | | | 4.033 | 0.0478 | 1.068 | 0.1220 | | 2.830 | 20.909 | 0.638 | 0.195 | (0.0029) |
| NIST-1886A | | | 1.932 | 0.0073 | 0.021 | 0.022 | | 2.086 | 22.38 | (0.018) | 0.084 | (0.001) |
| NIST-1887B | | | 3.624 | 0.0957 | 0.288 | 0.1540 | 0.025 | 4.599 | 19.59 | 0.2625 | 0.2034 | 0.01560 |
| NIST-1888B | 0.616 | 0.850 | 3.562 | 0.0652 | 0.1364 | 0.07307 | 0.015 Sulfide | 2.634 | 20.42 | 0.1099 | 0.2316 | (0.01253) |
| NIST-1889A | | | 0.814 | 0.2588 | 0.195 | 0.110 | | 2.69 | 20.66 | 0.042 | 0.227 | 0.0048 |

* NIST-1885A已停产

| 编号 | 描述 | Al2O3 | CaO | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SO3 | SiO2 | SrO | TiO2 | 规格 | |
|---------------|-----------------------|-------|-------|-------|------|------|------|------|------|------|-------|-------|-------|------|------|
| SEI-JC601A/1 | | RM | 5.35 | 64.14 | 3.05 | 0.40 | 1.75 | 0.15 | 0.29 | 0.06 | 2.33 | 22.23 | 0.037 | 0.33 | 20 g |
| SEI-JC601A/2 | | RM | 5.29 | 65.17 | 2.93 | 0.50 | 1.77 | 0.21 | 0.38 | 0.11 | 1.91 | 21.31 | 0.045 | 0.31 | 20 g |
| SEI-JC601A/3 | | RM | 4.57 | 66.32 | 2.43 | 0.45 | 1.53 | 0.08 | 0.30 | 0.13 | 3.18 | 20.67 | 0.049 | 0.28 | 20 g |
| SEI-JC601A/4 | | RM | 4.73 | 66.17 | 2.80 | 0.54 | 1.37 | 0.05 | 0.24 | 0.40 | 2.64 | 20.71 | 0.036 | 0.26 | 20 g |
| SEI-JC601A/5 | | RM | 5.07 | 65.99 | 2.99 | 0.46 | 0.94 | 0.28 | 0.32 | 0.10 | 3.02 | 20.52 | 0.027 | 0.25 | 20 g |
| SEI-JC601A/6 | | RM | 5.02 | 66.23 | 2.70 | 0.23 | 1.81 | 0.19 | 0.26 | 0.05 | 2.61 | 20.71 | 0.035 | 0.24 | 20 g |
| SEI-JC601A/7 | Cement for X-ray | RM | 4.26 | 64.27 | 4.11 | 0.35 | 1.03 | 0.06 | 0.17 | 0.06 | 2.42 | 22.76 | 0.030 | 0.25 | 20 g |
| SEI-JC601A/8 | fluorescence analysis | RM | 3.82 | 64.15 | 4.02 | 0.54 | 1.52 | 0.21 | 0.10 | 0.19 | 1.93 | 23.23 | 0.038 | 0.27 | 20 g |
| SEI-JC601A/9 | (set only) | RM | 3.40 | 64.75 | 4.18 | 0.39 | 0.78 | 0.11 | 0.24 | 0.06 | 1.94 | 23.82 | 0.024 | 0.16 | 20 g |
| SEI-JC601A/10 | | RM | 6.29 | 61.67 | 2.39 | 0.62 | 2.71 | 0.14 | 0.17 | 0.13 | 22.99 | 0.043 | 0.52 | 20 g | |
| SEI-JC601A/11 | | RM | 7.37 | 59.15 | 2.26 | 0.51 | 2.63 | 0.16 | 0.26 | 0.23 | 24.43 | 0.046 | 0.55 | 20 g | |
| SEI-JC601A/12 | | RM | 8.95 | 54.90 | 1.82 | 0.44 | 3.33 | 0.18 | 0.23 | 0.17 | 26.34 | 0.051 | 0.73 | 20 g | |
| SEI-JC601A/13 | | RM | 9.22 | 55.36 | 2.02 | 0.41 | 2.98 | 0.61 | 0.30 | 0.06 | 26.62 | 0.037 | 0.41 | 20 g | |
| SEI-JC601A/14 | | RM | 8.70 | 55.15 | 2.03 | 0.31 | 3.98 | 0.28 | 0.26 | 0.04 | 25.74 | 0.051 | 0.66 | 20 g | |
| SEI-JC601A/15 | | RM | 10.70 | 49.28 | 1.32 | 0.42 | 5.12 | 0.48 | 0.25 | 0.06 | 29.29 | 0.071 | 0.64 | 20 g | |

Cement continued水泥

| 编号 | 描述 | Al2O3 | CO2 | CaO | CaO (free) | Cl | Cr2O3 | Fe2O3 | Ins.Res | K2O | LOI | MgO | Mn2O3 | 规格 | |
|----------|--------|-------|------|------|------------|------|-------|-------|---------|------|-------|------|-------|-------|-----|
| CCRL-167 | Cement | RM | 5.92 | | 61.64 | 0.43 | 0.006 | 0.012 | 2.44 | 0.27 | 1.068 | 0.84 | 3.11 | 0.098 | 30g |
| CCRL-168 | Cement | RM | 5.11 | | 62.28 | 0.70 | 0.004 | 0.011 | 2.14 | 0.33 | 1.227 | 0.86 | 3.88 | 0.089 | 30g |
| CCRL-169 | Cement | RM | 3.17 | 1.66 | 63.47 | 1.36 | 0.005 | 0.013 | 3.70 | 0.28 | 0.429 | 2.30 | 2.00 | 0.111 | 30g |
| CCRL-170 | Cement | RM | 3.77 | 1.88 | 64.32 | 1.38 | 0.003 | 0.008 | 2.48 | 0.56 | 0.628 | 2.78 | 1.44 | 0.045 | 30g |
| CCRL-171 | Cement | RM | 4.16 | 0.88 | 63.60 | 0.88 | 0.008 | 0.011 | 4.53 | 0.21 | 0.700 | 1.02 | 2.06 | 0.050 | 30g |
| CCRL-172 | Cement | RM | 4.66 | 1.38 | 61.78 | 1.04 | 0.008 | 0.009 | 2.93 | 0.44 | 0.935 | 2.09 | 4.74 | 0.088 | 30g |

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|----------|--------|----|------|-----|-------|------|-------|-------|------|------|-------|------|------|-------|-----|
| CCRL-173 | Cement | RM | 4.49 | 0.6 | 62.45 | 1.65 | 0.023 | 0.009 | 2.62 | 0.36 | 0.447 | 2.02 | 3.03 | 0.060 | 30g |
| CCRL-174 | Cement | RM | 3.71 | | 62.43 | 1.04 | 0.005 | 0.006 | 3.62 | 0.26 | 0.430 | 1.14 | 4.83 | 0.073 | 30g |

| 编号 | Mn3O4 | Na2O | P2O5 | SO3 | SiO2 | TiO2 | ZnO |
|----------|-------|-------|-------|------|-------|------|-------|
| CCRL-167 | | 0.355 | 0.240 | 4.39 | 19.29 | 0.24 | 0.013 |
| CCRL-168 | | 0.226 | 0.191 | 3.48 | 19.91 | 0.20 | 0.014 |
| CCRL-169 | 0.039 | 0.201 | 0.135 | 2.15 | 22.07 | 0.23 | 0.110 |
| CCRL-170 | 0.025 | 0.092 | 0.074 | 2.75 | 21.71 | 0.17 | 0.008 |
| CCRL-171 | 0.327 | 0.065 | 0.064 | 2.24 | 21.29 | 0.22 | 0.016 |
| CCRL-172 | 0.172 | 0.267 | 0.111 | 3.21 | 19.30 | 0.26 | 0.004 |
| CCRL-173 | 0.062 | 0.309 | 0.192 | 4.10 | 20.01 | 0.27 | 0.024 |
| CCRL-174 | | 0.189 | 0.067 | 2.64 | 20.75 | 0.21 | 0.014 |

| 编号 | 描述 | 种类 | Al2O3 | CaO | Cl | Cr2O3 | Fe2O3 | K2O | LOI | MgO | Mn2O3 | Na2O | P2O5 | SO3 | 规格 |
|---------------|--------|-----|-------|-------|---------|-------|-------|------|--------|------|-------|------|-------|------|-----|
| FLX-CRM 100 * | Cement | CRM | 5.54 | 64.51 | (0.09) | 0.009 | 2.62 | 0.82 | 2.37 | 1.47 | 0.066 | 0.23 | 0.166 | 2.97 | 50g |
| FLX-CRM 101 | Cement | CRM | 8.81 | 48.24 | (0.05) | 0.010 | 3.52 | 2.10 | 3.84 | 1.70 | 0.118 | 0.68 | 0.191 | 3.16 | 50g |
| FLX-CRM 103 | Cement | CRM | 7.75 | 54.90 | (0.040) | 0.007 | 1.78 | 0.77 | (0.59) | 4.44 | 0.170 | 0.33 | 0.09 | 2.73 | 50g |
| FLX-CRM 105 | Cement | CRM | 4.27 | 65.24 | 0.049 | 0.008 | 2.50 | 1.24 | (2.61) | 1.57 | 0.040 | 0.21 | 0.053 | 3.37 | 30g |
| FLX-CRM 106 | Cement | CRM | 5.70 | 66.05 | 0.055 | 0.008 | 1.98 | 0.86 | (2.06) | 0.96 | 0.161 | 0.12 | 0.111 | 3.01 | 30g |
| FLX-CRM 107 | Cement | CRM | 4.23 | 67.19 | 0.043 | 0.006 | 1.29 | 0.70 | (6.59) | 0.70 | 0.040 | 0.18 | 0.160 | 3.13 | 30g |
| FLX-CRM 108 | Cement | CRM | 4.66 | 65.15 | 0.042 | 0.007 | 2.97 | 0.74 | (2.68) | 2.15 | 0.219 | 0.09 | 0.169 | 3.31 | 30g |
| FLX-CRM 109 | Cement | CRM | 4.25 | 66.45 | 0.049 | 0.008 | 2.32 | 1.06 | (5.96) | 1.59 | 0.051 | 0.18 | 0.052 | 3.11 | 30g |
| FLX-CRM 110 | Cement | CRM | 4.70 | 68.13 | 0.008 | 0.004 | 0.18 | 0.94 | (3.46) | 0.65 | 0.029 | 0.05 | 0.037 | 2.88 | 30g |

| 编号 | SiO2 | SrO | TiO2 | ZnO |
|---------------|-------|-------|-------|-------|
| FLX-CRM 100 * | 20.89 | 0.286 | 0.283 | 0.051 |
| FLX-CRM 101 | 30.31 | 0.248 | 0.469 | 0.044 |
| FLX-CRM 103 | 26.95 | 0.070 | 0.372 | 0.014 |
| FLX-CRM 105 | 20.84 | 0.146 | 0.179 | 0.054 |
| FLX-CRM 106 | 20.29 | 0.206 | 0.271 | 0.012 |
| FLX-CRM 107 | 21.81 | 0.151 | 0.194 | 0.013 |
| FLX-CRM 108 | 20.06 | 0.083 | 0.186 | 0.036 |
| FLX-CRM 109 | 20.39 | 0.144 | 0.203 | 0.042 |
| FLX-CRM 110 | 22.01 | 0.041 | 0.170 | 0.003 |

* 建议用BAS-BCS-CRM 372/1替代

Cement continued水泥

| 编号 | 描述 | 种类 | Al2O3 | BaO | Ca | CaO | Cr2O3 | Fe2O3 | K2O | MgO | Mn2O3 | Mn3O4 | Na2O | P2O5 | 规格 |
|-----------------|--------|-----|-------|-----|----|------|---------|-------|------|------|-------|-------|------|-------|------|
| BAS-BCS-CRM 353 | Cement | CRM | 3.77 | | | 64.8 | (0.02) | 4.82 | 0.49 | 2.42 | 0.23 | | 0.10 | 0.077 | 100g |
| BAS-BCS-CRM 354 | Cement | CRM | 4.84 | | | 70.0 | (0.004) | 0.30 | 0.11 | 0.42 | 0.058 | | 0.10 | 0.12 | 100g |

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| | | | | | | | | | | | | | |
|------------|--------|----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| DH-SX02-09 | Cement | RM | 4.63 | 0.028 | 48.78 | | 0.204 | 1.01 | 0.717 | | 0.078 | 0.043 | 100g |
| DH-SX02-10 | Cement | RM | 9.99 | 0.071 | 33.39 | 46.72 | 1.66 | 0.541 | 4.96 | 0.327 | 0.236 | 0.066 | 100g |
| DH-SX02-11 | Cement | RM | 6.86 | 0.041 | 40.63 | | 2.98 | 0.524 | 2.79 | | 0.156 | 0.137 | 100g |
| DH-SX02-12 | Cement | RM | 4.41 | | 46.48 | | 3.94 | 0.495 | 0.945 | | 0.084 | 0.191 | 100g |

| 编号 | S | SO3 | SiO2 | SrO | TiO2 | V2O5 |
|-----------------|------|------|-------|-------|--------|-------|
| BAS-BCS-CRM 353 | | 2.25 | 20.5 | 0.23 | 0.16 | |
| BAS-BCS-CRM 354 | | 2.25 | 21.8 | 0.11 | (0.04) | |
| DH-SX02-09 | 1.19 | | 21.95 | 0.051 | 0.095 | |
| DH-SX02-10 | 1.77 | | 30.30 | 0.077 | 0.421 | 0.011 |
| DH-SX02-11 | 1.48 | | 25.04 | 0.083 | 0.319 | 0.014 |
| DH-SX02-12 | 1.18 | | 21.16 | 0.086 | 0.242 | |

| 编号 | 描述 | Al2O3 | As | Ba | Be | Bi | CaO | Cd | Ce | Cl | Co | Cu | 规格 | |
|------------|--------|-------|-------|---------|---------|---------|----------|-------|----------|---------|---------|---------|---------|------|
| DH-SX02-02 | Cement | RM | 39.31 | 0.00328 | 0.00376 | 0.00041 | <0.00020 | 38.01 | <0.00025 | 0.01550 | (<0.01) | 0.00300 | 0.00120 | 100g |

| 编号 | F | Fe2O3 | In | K2O | La | MgO | Mo | Na2O | Ni | P2O5 | Pb |
|------------|-------|-------|----------|-------|---------|-------|---------|-------|---------|-------|---------|
| DH-SX02-02 | 0.009 | 15.83 | <0.00020 | 0.111 | 0.00692 | 0.487 | 0.00100 | 0.033 | 0.02494 | 0.043 | 0.00227 |

| 编号 | SO3 | Sb | Se | SiO2 | Te | Th | TiO2 | Tl | U | Zn |
|------------|-------|---------|----------|------|----------|---------|------|----------|---------|---------|
| DH-SX02-02 | 0.105 | 0.00133 | <0.00025 | 4.08 | <0.00020 | 0.00338 | 1.81 | <0.00020 | 0.00062 | 0.00824 |

| 编号 | 描述 | Al2O3 | CaO | Cl | Fe2O3 | Ins.Res. | K2O | LOI | MgO | MnO | Na2O | P2O5 | S | 规格 |
|-------------|-----------------|-------|------|-------|-------|----------|------|--------|------|------|------|------|--------|-----|
| SEI-JCCRM-1 | Cement | CRM | 5.26 | 65.21 | | 2.67 | 0.56 | (0.63) | 2.13 | 0.06 | 0.26 | 0.28 | | 60g |
| SEI-JCCRM-2 | Cement | CRM | 8.94 | 56.33 | | 2.08 | 0.31 | (0.47) | 3.05 | 0.15 | 0.24 | 0.07 | (0.32) | 60g |
| SEI-JCRM611 | Cement | RM | 5.41 | 66.25 | | 3.20 | 0.34 | (0.51) | 1.08 | 0.06 | 0.40 | 0.59 | | 30g |
| SEI-JCRM612 | Cement | RM | 5.19 | 62.95 | | 2.81 | 0.90 | (2.52) | 1.52 | 0.06 | 0.52 | 1.02 | | 30g |
| SEI-JCRM613 | Cement | RM | 5.36 | 63.00 | | 2.78 | 1.20 | (3.45) | 1.07 | 0.08 | 0.23 | 0.15 | | 30g |
| SEI-JC211R | Portland cement | RM | 5.67 | 64.37 | 0.009 | 2.65 | 0.44 | 1.86 | 1.16 | 0.07 | 0.22 | 0.10 | | 30g |

| 编号 | SO3 | SiO2 | SrO | TiO2 |
|-------------|---------|-------|-------|------|
| SEI-JCCRM-1 | 2.05 | 20.99 | 0.05 | 0.35 |
| SEI-JCCRM-2 | (2.95)* | 25.66 | 0.07 | 0.50 |
| SEI-JCRM611 | 0.25 | 21.84 | 0.28 | 0.30 |
| SEI-JCRM612 | 4.51 | 20.12 | 0.045 | 0.28 |
| SEI-JCRM613 | 6.07 | 19.51 | 0.15 | 0.35 |
| SEI-JC211R | 2.13 | 20.77 | | 0.31 |

* Value shows ignited SO3; unignited value is 1.91%

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Cement continued 水泥

| 编号 | 描述 | | Al ₂ O ₃ | CaO | CaO (free) | Cl- | Cr ₂ O ₃ | Fe ₂ O ₃ | Ins.Res. | K ₂ O | LOI | MgO | Mn ₂ O ₃ | Na ₂ O | 规格 |
|----------------|----------------------|-----|--------------------------------|-------|------------|------|--------------------------------|--------------------------------|----------|------------------|--------|--------|--------------------------------|-------------------|------|
| NIST-634a | Portland cement | CRM | 5.015 | 65.07 | (1.86) | | (0.0114) | 3.362 | (0.21) | 0.3572 | (1.66) | 1.0057 | (0.0229) | (0.0842) | 100g |
| ATILH-TL-1CA | Portland cement | RM | 5.24 | 65.77 | (0.83) | | | 2.00 | (0.21) | 0.28 | (1.39) | 1.13 | | 0.19 | 40g |
| ATILH-TL-200CA | Portland cement | RM | 8.72 | 49.97 | (0.34) | | | 4.07 | (17.42) | 1.10 | (3.30) | 2.06 | | 0.21 | 40g |
| ATILH-TL-201C | Blast furnace cement | CRM | 6.81 | 54.48 | | 0.06 | | 2.08 | | 0.73 | 1.96 | 3.35 | | 0.32 | 40g |
| ATILH-TL-202C | Composite cement | CRM | 10.14 | 45.12 | | 0.01 | | 3.27 | | 1.05 | 1.51 | 4.46 | | 0.32 | 40g |

| 编号 | | P ₂ O ₅ | S ₂ - | SO ₃ | SiO ₂ | SrO | TiO ₂ | ZnO |
|----------------|--|-------------------------------|------------------|-----------------|------------------|----------|------------------|----------|
| NIST-634a | | 0.1767 | | 2.780 | 20.493 | (0.0735) | 0.2463 | (0.0222) |
| ATILH-TL-1CA | | 0.57 | | 3.06 | 20.23 | 0.05 | 0.20 | |
| ATILH-TL-200CA | | 0.45 | | 2.84 | 26.55 | 0.13 | 0.46 | |
| ATILH-TL-201C | | | 0.31 | 3.16 | 25.63 | | | |
| ATILH-TL-202C | | | 0.20 | 3.17 | 29.61 | | | |

| 编号 | 描述 | | Al ₂ O ₃ | CaO | Fe ₂ O ₃ | Ins.Res. | K ₂ O | LOI | MgO | Na ₂ O | S | SO ₃ | SiO ₂ | TiO ₂ | 规格 |
|--------------|-------------------------------|-----|--------------------------------|-------|--------------------------------|----------|------------------|-------|-------|-------------------|------|-----------------|------------------|------------------|-----|
| NCS DC62101B | Portland cement | CRM | 4.48 | 62.76 | 2.64 | 0.75 | 0.66 | 3.00 | 2.05 | 0.11 | | 2.98 | 20.88 | 0.32 | 20g |
| NCS DC62102A | Cement | CRM | 5.31 | 58.67 | 3.17 | | 0.91 | 4.50 | 2.91 | 0.14 | | 2.33 | 21.19 | 0.32 | 20g |
| NCS DC62104A | Cement black raw meal | CRM | 3.64 | 38.71 | 2.08 | | 0.89 | 38.76 | 1.60 | 0.18 | | 1.21 | 12.30 | 0.18 | 20g |
| NCS DC62105D | Cement raw meal | CRM | 2.79 | 44.09 | 1.81 | | 0.48 | 36.70 | 1.15 | 0.07 | | 0.16 | 12.31 | 0.23 | 20g |
| NCS DC62109 | Portland pozzolanic cement | CRM | 6.52 | 47.57 | 3.54 | | 1.43 | 2.44 | 1.86 | 0.85 | | 2.59 | 32.67 | 0.16 | 20g |
| NCS DC62110 | Portland blast-furnace slag | CRM | 6.26 | 57.4 | 2.39 | | 0.59 | 3.68 | 3.31 | 0.17 | | 2.02 | 23.48 | 0.43 | 20g |
| NCS DC62111 | Portland fly ash cement | CRM | 8.93 | 46.52 | 4.9 | | 0.61 | 9.09 | 1.9 | 0.32 | | 2.47 | 24.31 | 0.33 | 20g |
| NCS DC62112 | Aluminate cement | CRM | 51.15 | 34.56 | 1.91 | | 0.13 | 0.68 | 0.63 | 0.04 | 0.1 | | 7.95 | 2.03 | 20g |
| NCS DC62113 | Granulated blast furnace | CRM | 12.23 | 35.62 | 1.26 | | 0.54 | 1.05 | 10.66 | 0.42 | 0.61 | 1.17 | 34.93 | 1.06 | 20g |
| NCS DC62114 | Pozzolana in cement industr | CRM | 24.2 | 2.83 | 5.1 | | 3.05 | 2.99 | 1.24 | 1.42 | | 0.08 | 57.53 | 1.07 | 20g |
| NCS DC62115 | Fly ash cement industry | CRM | 36.62 | 4.42 | 4.37 | | 0.57 | 1.76 | 0.84 | 0.17 | | 0.35 | 48.93 | 1.46 | 20g |
| NCS DC62116 | Composite portland cement | CRM | 4.01 | 57.86 | 2.22 | | 0.55 | 13.86 | 2.28 | 0.11 | | 2.3 | 16.34 | 0.22 | 20g |
| NCS DC62117 | White portland cement | CRM | 4.61 | 65.71 | 0.26 | | 0.05 | 6.43 | 0.14 | 0.05 | | 1.9 | 20.49 | 0.12 | 20g |
| NCS DC62118 | Moderate heat portland cement | CRM | 4.75 | 60.99 | 4.12 | 1.18 | 0.43 | 0.81 | 4.37 | 0.12 | | 2.27 | 21.73 | 0.23 | 20g |

| 编号 | 描述 | | CaF ₂ | F | 规格 |
|--------------|--------------------|-----|------------------|------|-----|
| NCS DC62125A | Fluorine in cement | CRM | (0.37) | 0.18 | 20g |

| 编号 | 描述 | | Cl- | 规格 |
|-------------|-----------------|-----|-------|-----|
| NCS DC62121 | Cement Raw Meal | CRM | 0.029 | 20g |
| NCS DC62122 | Cement | CRM | 0.012 | 20g |

| 编号 | 描述 | | Al ₂ O ₃ | CaCO ₃ (total) | CaO | F | Fe ₂ O ₃ | K ₂ O | LOI | MgO | Na ₂ O | SO ₃ | SiO ₂ | TiO ₂ | 规格 |
|--------------|-----------------------|-----|--------------------------------|---------------------------|-------|------|--------------------------------|------------------|-------|------|-------------------|-----------------|------------------|------------------|-----|
| NCS DC62123 | Cement Clinker | CRM | 32.6 | | 43.4 | | 2.21 | 0.22 | 0.41 | 1.37 | 0.09 | 9.55 | 8.56 | 1.51 | 20g |
| NCS DC62124 | Cement Raw Meal | CRM | 22.29 | | 33.05 | | 1.34 | 0.14 | 28.21 | 1.21 | 0.06 | 7.07 | 5.09 | 1.07 | 20g |
| NCS DC62126A | Cement Black Raw Meal | CRM | | 70.30 | 39.28 | 0.15 | 2.07 | | 38.51 | | | | | | 20g |

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Cement continued水泥

| 编号 | 描述 | 3 days | 7 days | 28 days | 规格 |
|------------|-----------------------------|--------|--------|---------|-------|
| SEI-JC401H | Cement for strength test RM | 32.4* | 46.9* | 61.3* | 4.8kg |

* measured as compression strength (N/mm2)

| 编号 | 描述 | 45µm | 32µm | 20µm | 16µm | 10µm | 规格 |
|------------|------------------------------|------|------|------|------|------|-------|
| SEI-JC701B | Cement for sieving method RM | 10.4 | 22.8 | 43.0 | 52.4 | 70.1 | 4.8kg |
| NIST-46H* | Portland cement CRM | 7.43 | | | | | |

* informational values on chemical composition and cement compounds available incertificate

| 编号 | 描述 | dry | 7 days | 28 days | 规格 |
|------------|--------------------------------|----------|---------|---------|------|
| SEI-JC301R | Cement for heat of hydrator RM | 2454 J/g | 271 J/g | 325 J/g | 600g |

| 编号 | 描述 | Blaine (cm2/g) | Wagner (cm2/g) | Sieve residue 45 µm | Sieve residue 80 µm | Density (g/cm3) | 规格 |
|---------------|--------------------------|----------------|----------------|---------------------|---------------------|-----------------|-------|
| NIST-114Q | Cement fineness std CRM | 3818 | 2183 | 0.79 | | | 20x5g |
| SEI-JC102M | Cement fineness std RM | 3370 | | | | | 30g |
| NCS DC62127 | Cement fineness CRM | 3452 | | | 2.56 | (3.06) | 20g |
| ATILH-TL-201B | Blast furnace cement CRM | 4231 | | | | 3.03 | 40g |
| ATILH-TL-202B | Composite cement CRM | 4135 | | | | 2.94 | 40g |
| ATILH-NO9* | Cement RM | 4175 | | | | 3.15 | 2x25g |

* chemical and mineralogical composition below

| 编号 | Al2O3 | CaO | CaO (free) | Ins.Res. | K2O | MgO | Na2O | P2O5 | SiO2 | SO3 |
|-----------|-------|-------|------------|----------|------|------|------|------|-------|------|
| ATILH-NO9 | 4.66 | 64.00 | 1.09 | 0.45 | 0.76 | 2.20 | 0.26 | 0.07 | 20.47 | 2.74 |

| 编号 | C4AF | C3A | C3S | C2S |
|-----------|------|-----|-----|-----|
| ATILH-NO9 | 9 | 7 | 62 | 12 |

| 编号 | 描述 | CO2 | Lime | NSS | Pozz. | Slag | 规格 |
|-------------|---------------------------------|------|------|------|-------|------|-----|
| NCS DC62119 | Ordinary portland cement CRM | 0.98 | 1.2 | | 4.5 | 5.8 | 20g |
| NCS DC62120 | Portland blast furnace cem. CRM | 3.5 | 7 | 97.5 | 0.5 | 18.5 | 20g |

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Cement continued 水泥

| 编号 | 描述 | | Al ₂ O ₃ | Alkali sulfate | Aphthitalite | Arcanite | C ₂ AF ferrite | C ₂ S belite | C ₃ A aluminate | C ₃ S alite | CaO | CaO(free) | Fe ₂ O ₃ | K ₂ O | 规格 |
|------------|-------------------------|-----|--------------------------------|----------------|--------------|----------|---------------------------|-------------------------|----------------------------|------------------------|---------|-----------|--------------------------------|------------------|-------|
| NIST-2686A | Portland cement clinker | CRM | (3.70) | 0.87 | (0.74) | (0.27) | 10.76 | 18.68 | 2.46 | 63.35 | (64.09) | | (3.65) | (0.49) | 4x7g |
| NIST-2687 | Portland cement clinker | CRM | (5.53) | | | 0.92 | 2.81 | 12.57 | 11.82 | 71.24 | (67.20) | (2.2) | (1.98) | (0.72) | 3x10g |
| NIST-2688 | Portland cement clinker | CRM | (4.90) | | | | 12.20 | 17.45 | 4.99 | 64.95 | (66.50) | (0.2) | (4.07) | (0.35) | 3x10g |

| 编号 | | LOI 1000°C | MgO | Mn ₂ O ₃ | Na ₂ O | P ₂ O ₅ | Periclase | SO ₃ | SiO ₂ | SrO | TiO ₂ |
|------------|--|------------|--------|--------------------------------|-------------------|-------------------------------|-----------|-----------------|------------------|--------|------------------|
| NIST-2686A | | (0.51) | (4.81) | (0.13) | (0.20) | (0.07) | 3.40 | (0.56) | (21.71) | (0.04) | (0.22) |
| NIST-2687 | | (0.17) | (1.48) | (0.04) | (0.14) | (0.29) | | (0.83) | (21.43) | (0.11) | (0.27) |
| NIST-2688 | | (0.21) | (0.98) | (0.03) | (0.11) | (0.08) | | (0.31) | (22.68) | (0.13) | (0.24) |

| 编号 | 描述 | | Al ₂ O ₃ | CaO | Cr ₂ O ₃ | Fe ₂ O ₃ | K ₂ O | MgO | MnO | MoO ₃ | S | SiO ₂ | SrO | TiO ₂ | V ₂ O ₅ | 规格 |
|------------|-------------------|----|--------------------------------|-------|--------------------------------|--------------------------------|------------------|-------|-------|------------------|-------|------------------|-------|------------------|-------------------------------|------|
| DH-SX01-01 | Calcium aluminate | RM | 72.2 | 26.74 | 0.006 | 0.118 | | 0.191 | 0.008 | | 0.011 | 0.17 | | | <0.005 | 100g |
| DH-SX01-02 | Calcium aluminate | RM | 64.30 | 18.34 | 0.054 | 0.708 | | 12.54 | 0.114 | | 0.02 | 2.02 | 0.024 | 0.165 | 1.48 | 100g |
| DH-SX01-03 | Calcium aluminate | RM | 68.8 | 23.38 | 0.028 | 0.289 | 0.296 | 3.53 | 0.024 | 0.014 | | 0.45 | 0.009 | 0.067 | 2.36 | 100g |

| 编号 | 描述 | | Al ₂ O ₃ | Ba | CaCO ₃ | CaO | Cd | Co | Cr | Cu | Fe | Ga | K | La | Mg | 规格 |
|--------------|----------------------------|-----|--------------------------------|---------|-------------------|-------|-----------|----------|---------|---------|---------|-----------|---------|-----------|--------|------|
| BAM-RS 3 | Calcium carbonate, calcite | CRM | | 0.00453 | 99.79 | | (0.00005) | (0.0001) | <0.0001 | <0.0001 | <0.0005 | (0.00015) | (0.002) | (0.00005) | 0.0183 | 100g |
| NRCCACB-1 | Calcium carbonate | CRM | | | | | 0.00076 | | | | | | | | | 2.5g |
| ECRM-F 701-1 | Calcite | CRM | 0.55 | | | 52.69 | | | | | | | | | | 100g |

| 编号 | | MgO | Mn | MnO | Na | Ni | P | P ₂ O ₅ | Pb | S | Si | SiO ₂ | Sn | Sr |
|--------------|--|------|--------|-------|---------|----------|-------|-------------------------------|-----------|-------|--------|------------------|----------|--------|
| BAM-RS 3 | | | 0.0003 | | 0.00475 | (0.0003) | | | (0.00001) | | (0.02) | | (0.0001) | 0.0173 |
| NRCCACB-1 | | | | | | | | 0.0243 | | | | | | |
| ECRM-F 701-1 | | 0.60 | | 0.028 | | | 0.022 | 0.050 | | 0.040 | | | 1.99 | |

| 编号 | | Ti | TiO ₂ | Zn | Zr |
|--------------|--|-----------|------------------|---------|-----------|
| BAM-RS 3 | | (0.00005) | | <0.0002 | (0.00002) |
| NRCCACB-1 | | | | | |
| ECRM-F 701-1 | | | 0.030 | | |

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Clay粘土

Clay粘土

| 编号 | 描述 | 种类 | Al ₂ O ₃ | CaO | Fe ₂ O ₃ | K ₂ O | LOI | MgO | MnO | Na ₂ O | P ₂ O ₅ | S | SiO ₂ | TiO ₂ | 规格 |
|-----------------|---------------------------|-----|--------------------------------|-------|--------------------------------|------------------|-------|-------|-------|-------------------|-------------------------------|------|------------------|------------------|------|
| BAS-BCS-CRM 348 | Ball clay | CRM | 31.59 | 0.173 | 1.04 | 2.23 | 11.75 | 0.305 | | 0.344 | 0.071 | | 51.13 | 1.08 | 100g |
| IPT-32 | Plastic clay (Saracuruna) | CRM | 28.5 | 0.17 | 3.46 | 0.80 | 12.6 | 0.39 | | 0.16 | 0.13 | | 51.8 | 1.49 | 50g |
| IPT-42 | Clay (Sao Simao) | CRM | 32.2 | 0.05 | 1.09 | 0.47 | 12.9 | 0.19 | | 0.02 | 0.07 | | 51.9 | 0.96 | 50g |
| N 137 | Clay | CRM | 32.43 | 0.28 | 1.63 | 1.31 | | 0.28 | | 0.126 | | | 61.46 | 1.13 | 75g |
| N 138 | Clay | CRM | 26.01 | 0.23 | 1.47 | 0.98 | | 0.22 | | 0.10 | | | 68.90 | 0.92 | 75g |
| N 139 | Clay | CRM | 13.80 | 0.14 | 0.84 | 0.51 | | 0.12 | | 0.059 | | | 82.41 | 0.53 | 75g |
| VS-K11 | Clay | CRM | 16.8 | 1.2 | (6.3) | | | 2.01 | 0.064 | | | 0.05 | 62.2 | 0.98 | 50g |

| 编号 | 描述 | 种类 | Al ₂ O ₃ | CO ₂ | CaO | Cl | FeO | Fe ₂ O ₃ | H ₂ O+ | K ₂ O | LOI | MgO | MnO | Na ₂ O | 规格 |
|--------------|------|-----|--------------------------------|-----------------|-------|--------|---------|--------------------------------|-------------------|------------------|-------|-------|-------|-------------------|-----|
| NCS DC60102 | Clay | CRM | 26.27 | (0.041) | 0.13 | 0.0041 | | 10.55 | | 0.79 | 10.62 | 0.46 | 0.052 | 0.060 | 50g |
| NCS DC60103 | Clay | CRM | 36.74 | (0.04) | 0.054 | 0.0043 | (0.082) | 0.28 | (13.12) | 1.05 | 13.38 | 0.046 | 0.013 | 0.094 | 50g |
| NCD DC60104 | Clay | CRM | 31.32 | (0.051) | 1.80 | 0.0029 | | 0.33 | | 1.15 | 8.81 | 0.083 | 0.020 | 2.55 | 50g |
| NCD DC60105 | Clay | CRM | 13.28 | 1.66 | 3.23 | 0.011 | | 4.64 | | 2.50 | 5.10 | 1.84 | 0.088 | 1.81 | 60g |
| NCS DC62108C | Clay | CRM | 13.79 | | 1.62 | | | 5.17 | | 2.40 | 4.54 | 1.82 | | 1.50 | 20g |

| 编号 | P ₂ O ₅ | SO ₃ | SiO ₂ | TiO ₂ |
|--------------|-------------------------------|-----------------|------------------|------------------|
| NCS DC60102 | 0.14 | 0.49 | 49.98 | 0.70 |
| NCS DC60103 | 0.032 | 0.019 | 48.17 | 0.021 |
| NCD DC60104 | 0.053 | 0.023 | 53.67 | 0.030 |
| NCD DC60105 | 0.106 | 0.027 | 66.64 | |
| NCS DC62108C | | 0.08 | 67.74 | 0.71 |

| 编号 | 描述 | 种类 | Al | Ba | Ca | Ce | Co | Cr | Cs | Eu | Fe | Hf | K | Li | LOI | 规格 |
|----------|--------------|-----|-------|---------|--------|----------|-----------|---------|-----------|------------|-------|-----------|-------|---------|--------|-----|
| NIST-679 | Brick clay | CRM | 11.01 | 0.0432 | 0.1628 | (0.0105) | (0.0026) | 0.01097 | (0.00096) | (0.00019) | 9.05 | (0.00046) | 2.433 | 0.00717 | | 75g |
| NIST-97B | Flint clay | CRM | 20.76 | (0.018) | 0.0249 | | (0.00038) | 0.0227 | (0.00034) | (0.000084) | 0.831 | (0.0013) | 0.513 | 0.0550 | (13.3) | 60g |
| NIST-98B | Plastic clay | CRM | 14.30 | (0.07) | 0.0759 | | (0.00163) | 0.0119 | (0.00165) | (0.00013) | 1.18 | (0.00072) | 2.81 | 0.0215 | (7.5) | 60g |

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| 编号 | Mg | Mn | Na | P | Rb | Sb | Sc | Si | Sr | Th | Ti | Zn | Zr |
|----------|--------|----------|--------|---------|----------|-----------|-----------|-------|---------|----------|-------|----------|---------|
| NIST-679 | 0.7552 | (0.1730) | 0.1304 | (0.075) | (0.0190) | | (0.00225) | 24.34 | 0.00734 | (0.0014) | 0.577 | (0.0150) | |
| NIST-97B | 0.113 | 0.0047 | 0.0492 | (0.02) | (0.0033) | (0.00022) | (0.0022) | 19.81 | 0.0084 | (0.0036) | 1.43 | (0.0087) | (0.05) |
| NIST-98B | 0.358 | 0.0116 | 0.1496 | (0.03) | (0.0180) | (0.00016) | (0.0022) | 26.65 | 0.0189 | (0.0021) | 0.809 | (0.0110) | (0.022) |

| 编号 | 描述 | 种类 | Al2O3 | BaO | CaO | Fe2O3 | K2O | Li2O | LOI | MgO | Mn3O4 | Na2O | P2O5 | SiO2 | SrO | 规格 |
|-------------|------|----|-------|------|------|-------|------|--------|------|------|-------|------|------|------|------|------------|
| CERAM-AN41 | Clay | RM | 36.4 | 0.02 | 0.09 | 0.62 | 1.59 | | 12.3 | 0.35 | 0.01 | 0.10 | 0.14 | 48.5 | 0.01 | 25g / 100g |
| CERAM-2CAS1 | Clay | RM | 32.0 | | 0.19 | 1.03 | 2.26 | (0.03) | 9.81 | 0.33 | | 0.35 | | 52.5 | | 25g / 100g |

| 编号 | TiO2 | ZnO |
|-------------|------|------|
| CERAM-AN41 | 0.03 | 0.01 |
| CERAM-2CAS1 | 1.05 | |

Clay continued 粘土

| 编号 | 描述 | 种类 | Al2O3 | CO2 | CaO | FeO | Fe2O3 | H2O | K2O | LOI | MgO | MnO | Na2O | 规格 |
|--------------|--------|-----|-------|---------|-------|---------|-------|-------|-------|-------|-------|--------|-------|------|
| NIM-GBW03121 | Kaolin | CRM | 31.41 | (0.026) | 0.052 | (0.026) | 0.50 | 11.72 | 0.34 | 11.94 | 0.12 | 0.0032 | 0.015 | 50g |
| NIM-GBW03122 | Kaolin | CRM | 38.62 | (0.06) | 0.16 | (0.33) | 0.72 | 14.77 | 0.049 | 15.00 | 0.068 | 0.0054 | 0.069 | 50g |
| UN KK | Kaolin | CRM | 36.77 | | 0.236 | | 0.982 | 12.75 | 1.063 | | 0.192 | 0.015 | 0.032 | 100g |

| 编号 | P2O5 | SO3 | SiO2 | TiO2 |
|--------------|-------|------|-------|-------|
| NIM-GBW03121 | 0.099 | 0.53 | 54.55 | 0.69 |
| NIM-GBW03122 | 0.21 | 0.12 | 44.53 | 0.39 |
| UN KK | | | 47.06 | 0.166 |

| 编号 | 描述 | 种类 | Al | Al2O3 | Ba | BaO | Ca | CaO | Cr | Cr2O3 | Fe | Fe2O3 | K | K2O | 规格 |
|--------------|-----------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-----|
| ECRM-B 776-1 | Firebrick | CRM | 15.50 | 29.28 | 0.109 | 0.122 | 0.221 | 0.310 | 0.015 | 0.022 | 0.999 | 1.43 | 2.42 | 2.92 | 50g |

| 编号 | Li | LiO2 | Mg | MgO | Na | Na2O | P | P2O5 | Si | SiO2 | Ti | TiO2 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| ECRM-B 776-1 | 0.009 | 0.019 | 0.287 | 0.476 | 0.362 | 0.488 | 0.027 | 0.062 | 29.34 | 62.76 | 0.969 | 1.62 |

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Coal煤

Coal煤

| 编号 | 描述 | 种类 | S | 规格 |
|----------------|-------------------------------|-----|-------|-------|
| IARM HC-20025C | Sulfur in coal | CRM | 0.30 | 250 g |
| ACIRS S1A | Coal | RM | 0.42 | 250 g |
| BCR 331 | Low volatile steam coal | CRM | 0.499 | 250 g |
| IARM HC-20050A | Sulfur in coal | CRM | 0.55 | 250 g |
| IARM HC-20060A | Sulfur in coal | CRM | 0.59 | 125 g |
| ACIRS S1B | Coal | RM | 0.71 | 20 g |
| IARM HC-20075C | Sulfur in coal | CRM | 0.76 | 20 g |
| IARM HC-20080A | Sulfur in coal | CRM | 0.77 | 20 g |
| BCR 332 | High volatile industrial coal | CRM | 0.961 | 20 g |
| IARM HC-20100B | Sulfur in coal | CRM | 1.00 | 20 g |
| BCR 333 | Coking steam coal | CRM | 1.344 | 20 g |
| ACIRS S1C | Coal | RM | 1.46 | 50 g |
| BCR 334 | Anthracite | CRM | 1.609 | 50 g |
| IARM HC-20150C | Sulfur in coal | CRM | 1.72 | 50 g |
| ACIRS S1D | Coal | RM | 2.47 | 50 g |
| IARM HC-20250A | Sulfur in coal | CRM | 2.5 | 50 g |
| IARM HC-20300B | Sulfur in coal | CRM | 3.02 | 50 g |
| BCR 336 | High volatile steam coal | CRM | 3.290 | 50 g |

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| | | | | | | | | | |
|----------------|---------------------|-----|------|--|--|--|--|--|------|
| IARM HC-20450A | Sulfur in coal | CRM | 4.72 | | | | | | 50 g |
| BCR 335 | Flame coal - sulfur | CRM | 5.08 | | | | | | 50 g |
| ASCRM 012D-2 | Sulfur in coal | CRM | 5.21 | | | | | | 50 g |
| IARM HC-20500B | Sulfur in coal | CRM | 5.4 | | | | | | 50 g |
| IARM HC-20800A | Sulfur in coal | CRM | 8.6 | | | | | | 50 g |

| 编号 | 描述 | 种类 | Ash % | Heat (J/g) | S | S (tot) | % Vol. | 规格 |
|-------------|-------------------|-----|-------|------------|------|---------|--------|-------|
| NCS FC28219 | Coal - Bitumite | CRM | 6.1 | 30090 | 0.28 | | 31.24 | 50 g |
| NCS FC28207 | Coal - Anthracite | CRM | 16.26 | 26100 | 0.43 | | 7.26 | 50 g |
| NCS FC28201 | Coal - Bitumite | CRM | 10.45 | 31570 | 0.47 | | 17.7 | 50 g |
| NCS FC28212 | Coal - Bitumite | CRM | 8.47 | 30790 | 0.51 | | 25.94 | 50 g |
| NCS FC28203 | Coal - Bitumite | CRM | 10.36 | 31660 | 0.71 | | 20.69 | 50 g |
| NCS FC28206 | Coal - Anthracite | CRM | 14.46 | 26720 | 0.85 | | 28.56 | 50 g |
| NCS FC28211 | Coal - Anthracite | CRM | 13.41 | 30230 | 0.88 | | 9.08 | 50 g |
| NCS FC28204 | Coal - Bitumite | CRM | 8.11 | 31290 | 0.98 | | 33.91 | 50 g |
| NCS FC28202 | Coal - Bitumite | CRM | 8.65 | 30770 | 1.05 | | 33.36 | 50 g |
| NCS FC28205 | Coal - Anthracite | CRM | 8.62 | 30750 | 1.05 | | 33.44 | 50 g |
| NCS FC28208 | Coal - Bitumite | CRM | 15.47 | 29200 | 1.05 | | 20.59 | 50 g |
| NCS FC28218 | Coal - Anthracite | CRM | 14.58 | 29260 | 1.35 | | 6.16 | 50 g |
| NCS FC28213 | Coal - Bitumite | CRM | 9.88 | 30760 | 1.49 | | 36.2 | 50 g |
| NCS FC28214 | Coal - Bitumite | CRM | 27.85 | 23630 | 1.66 | | 29.21 | 50 g |
| NCS FC28209 | Coal - Anthracite | CRM | 27.33 | 23960 | 1.76 | | 8.21 | 50 g |
| NCS FC28217 | Coal - Bitumite | CRM | 8.68 | 31330 | 1.79 | | 36.06 | 50 g |
| NCS FC28215 | Coal - Bitumite | CRM | 25.2 | 24830 | 2.17 | | 28.79 | 50 g |
| NCS FC28216 | Coal - Anthracite | CRM | 8.7 | 32340 | 2.79 | | 10.78 | 50 g |
| NCS FC28210 | Coal - Anthracite | CRM | 25.80 | 24130 | 3.17 | | 8.77 | 50 g |
| NCS FC28220 | Coal - Anthracite | CRM | 16.52 | 28670 | 4.03 | | 11.15 | 50 g |
| NCS FC28221 | Coal - Bitumite | CRM | 18.98 | 27790 | 4.04 | | 32 | 50 g |
| COCO 003 | Coal | RM | 17.23 | 25890 | | 0.37 | 19.68 | 250 g |
| COCO 004 | Coal | RM | 30.71 | 20480 | | 0.96 | 20.90 | 250 g |

Coal continued 煤

| 编号 | 描述 | 种类 | Ash % | Heat (J/g) | dried | S | % Vol. | 规格 |
|--------------|------|-----|--------------|--------------|-------|------------|--------------|------|
| NCS FC62001 | Coal | CRM | 13.42, 13.97 | 26560, 27660 | 3.96 | 0.62, 0.65 | 26.95, 28.06 | 20 g |
| NCS FC62001a | Coal | CRM | 11.46, 12.21 | 25700, 27390 | 6.17 | 0.37, 0.39 | 29.93, 31.90 | 20 g |
| NCS FC62002a | Coal | CRM | 23.90, 24.68 | 24190, 24980 | 3.15 | 0.36, 0.37 | 4.29, 4.43 | 20 g |

| 编号 | 描述 | 种类 | Ash % | Heat (J/g) | P | S | S (tot) | % Vol. | 规格 |
|----------|------|----|-------|------------|-------|------|---------|--------|-------|
| COCO 006 | Coal | RM | 18.33 | 25420 | 0.123 | 0.45 | | 19.98 | 250 g |
| COCO 010 | Coal | RM | 14.73 | 26910 | 0.106 | 0.57 | | 24.31 | 250 g |
| COCO 011 | Coal | RM | 18.65 | 25020 | 0.008 | 0.93 | | 24.31 | 250 g |
| COCO 008 | Coal | RM | 29.96 | 20600 | 0.048 | 1.03 | | 20.94 | 250 g |
| COCO 009 | Coal | RM | 7.51 | 32670 | 0.014 | 1.07 | | 27.41 | 250 g |
| COCO 001 | Coal | RM | 14.66 | 26820 | 0.079 | | 0.39 | 24.58 | 250 g |
| COCO 002 | Coal | RM | 14.25 | 29200 | 0.037 | | 1.89 | 21.16 | 250 g |

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| 编号 | 描述 | 种类 | Ash % | C | H | N | P | S | % Vol. | 规格 |
|------------|------|-----|-------|-------|------|------|-------|------|--------|-------|
| IND-CMT037 | Coal | CRM | 15.26 | 71.17 | 3.67 | 1.72 | 0.102 | 0.48 | 24.84 | 150 g |
| IND-CMT049 | Coal | CRM | 16.34 | 70.96 | 3.61 | 1.63 | 0.087 | 0.48 | 24.31 | 150 g |
| IND-CMT050 | Coal | CRM | 16.36 | 70.79 | 3.80 | 1.62 | 0.095 | 0.48 | 24.58 | 100 g |
| IND-CMT057 | Coal | CRM | 15.49 | 71.19 | 3.85 | 1.70 | 1.093 | 0.48 | 25.42 | 150 g |
| IND-CMT045 | Coal | CRM | 15.45 | 71.24 | 3.73 | 1.71 | | 0.49 | 24.50 | 100 g |
| IND-CMT047 | Coal | CRM | 13.58 | 71.85 | 3.81 | 1.66 | 0.06 | 0.60 | 25.45 | 150 g |
| IND-CMT026 | Coal | CRM | 37.83 | 46.63 | 2.59 | 1.11 | 0.066 | 0.65 | 22.07 | 150 g |
| IND-CMT046 | Coal | CRM | 11.86 | 74.21 | 3.77 | 1.76 | | 0.66 | 26.87 | 150 g |
| IND-CMT051 | Coal | CRM | 39.70 | 44.44 | 2.45 | 1.10 | 0.11 | 0.72 | 20.89 | 150 g |
| IND-CMT043 | Coal | CRM | 22.31 | 61.69 | 3.03 | 1.56 | 0.071 | 0.74 | 23.82 | 150 g |
| IND-CMT039 | Coal | CRM | 24.51 | 59.97 | 2.93 | 1.56 | 0.079 | 0.75 | 23.34 | 150 g |
| IND-CMT042 | Coal | CRM | 26.66 | 57.78 | 2.98 | 1.46 | 0.100 | 0.78 | 22.40 | 150 g |
| IND-CMT052 | Coal | CRM | 7.94 | 85.79 | 2.47 | 1.77 | 0.020 | 0.85 | 5.17 | 150 g |
| IND-CMT029 | Coal | CRM | 32.97 | 50.86 | 2.86 | 1.17 | 0.051 | 0.86 | 23.96 | 150 g |
| IND-CMT040 | Coal | CRM | 26.63 | 58.36 | 3.14 | 1.51 | 0.058 | 0.86 | 23.00 | 150 g |
| IND-CMT041 | Coal | CRM | 27.62 | 57.61 | 3.08 | 1.48 | 0.065 | 0.94 | 22.84 | 150 g |
| IND-CMT035 | Coal | CRM | 26.81 | 58.01 | 2.98 | 1.52 | 0.05 | 1.02 | 22.18 | 150 g |

| 编号 | 描述 | 种类 | Ash % | C | H | Heat (J/g) | N | P | S | % Vol. | 规格 |
|----------------|------|-----|-------|-------|------|------------|------|-------|------|--------|-------|
| IND-CMTCCS 008 | Coal | CRM | 16.33 | 70.50 | 3.62 | 27520 | 1.61 | 0.086 | 0.48 | 24.36 | 100 g |
| IND-CMT058 | Coal | CRM | 31.1 | 53.64 | 3.06 | 20180 | 1.33 | 0.023 | 0.50 | 23.1 | 150 g |
| IND-CMT059 | Coal | CRM | 16.0 | 74.50 | 2.84 | 28330 | 1.79 | 0.031 | 0.82 | 11.0 | 150 g |
| IND-CMT055 | Coal | CRM | 14.1 | 75.70 | 2.93 | 29120 | 1.93 | 0.031 | 0.88 | 11.5 | 100 g |
| COCO 005 | Coal | RM | 7.49 | 81.70 | 4.57 | 32900 | 1.44 | 0.015 | 1.05 | 27.19 | 250 g |
| COCO 007 | Coal | RM | 14.51 | 72.55 | 3.69 | 28710 | 1.83 | 0.036 | 1.55 | 21.60 | 250 g |
| IND-CMT062 | Coal | CRM | 11.46 | 82.28 | 2.16 | 30170 | 1.83 | 0.040 | 1.74 | 5.34 | 150 g |

| 编号 | 描述 | 种类 | Cl | F | 规格 |
|---------|------|-----|----------|--------|------|
| BCR 460 | Coal | CRM | (0.0059) | 0.0225 | 40 g |

Coal continued 煤

| 编号 | 描述 | 种类 | Ash % | C | H | Heat (J/g) | N | S | T.S.G. | % Vol. | 规格 |
|--------------|-------------------|-----|-------|-------|------|------------|------|------|--------|--------|------|
| NCS FC28001s | Coal - Bitumite | CRM | 10.24 | 77.05 | 4.04 | 30740 | 1.25 | 0.42 | 1.43 | 23.81 | 50 g |
| NCS FC28002j | Coal - Bitumite | CRM | 23.73 | 59.95 | 3.63 | 23760 | 1.06 | 1.61 | 1.58 | 30.08 | 50 g |
| NCS FC28002L | Coal - Bitumite | CRM | 15.52 | 66.61 | 4.06 | 26660 | 1.18 | 1.52 | 1.50 | 33.31 | 50 g |
| NCS FC28003h | Coal - Anthracite | CRM | 13.16 | 78.73 | 2.66 | 29660 | 0.98 | 0.40 | 1.57 | 9.99 | 50 g |
| NCS FC28004h | Coal - Anthracite | CRM | 14.32 | 78.59 | 2.16 | 29150 | 1.04 | 1.02 | 1.67 | 6.96 | 50 g |
| NCS FC28005e | Coal - Anthracite | CRM | 14.26 | 77.65 | 2.74 | 29550 | 0.86 | 1.75 | 1.58 | 8.82 | 50 g |
| NCS FC28006q | Coal - Bitumite | CRM | 9.26 | 76.95 | 4.58 | 31510 | 1.37 | 0.81 | 1.38 | 31.37 | 50 g |
| NCS FC28007i | Coal - Bitumite | CRM | 17.04 | 66.70 | 4.19 | 27080 | 1.15 | 1.94 | 1.48 | 31.94 | 50 g |
| NCS FC28008g | Coal - Bitumite | CRM | 28.77 | 56.88 | 3.87 | 23530 | 0.93 | 2.80 | 1.57 | 29.38 | 50 g |
| NCS FC28009h | Coal - Bitumite | CRM | 26.49 | 60.33 | 2.96 | 23860 | 0.98 | 4.69 | 1.69 | 19.08 | 50 g |

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| 编号 | 描述 | 种类 | Ash % | C | Cl | CO2 | H | Heat (J/g) | N | P | S | T.S.G. | % Vol. | 规格 |
|--------------|-------------------|-----|-------|-------|------|-------|------|------------|------|-------|---|--------|--------|------|
| NCS FC28010f | Coal - Bitumite | CRM | 20.36 | 64.08 | 3.97 | 25960 | 1.11 | 1.77 | 1.51 | 29.96 | | | | 50 g |
| NCS FC28011d | Coal - Anthracite | CRM | 20.32 | 72.12 | 1.85 | 26310 | 0.84 | 2.22 | 1.79 | 6.62 | | | | 50 g |
| NCS FC28011f | Coal - Anthracite | CRM | 16.98 | 75.00 | 2.06 | 27860 | 0.89 | 2.38 | 1.72 | 6.97 | | | | 50 g |
| NCS FC28012e | Coal - Anthracite | CRM | 24.40 | 64.76 | 2.84 | 25040 | 1.06 | 3.05 | 1.66 | 11.16 | | | | 50 g |
| NCS FC28017a | Coal - Anthracite | CRM | 14.53 | 80.04 | 0.97 | 27160 | 0.24 | 0.27 | 1.93 | 5.85 | | | | 50 g |
| NCS FC28101 | Coal - Anthracite | CRM | 3.95 | 90.20 | 3.01 | 34340 | 0.58 | 0.20 | 1.47 | 6.82 | | | | 50 g |
| NCS FC28102 | Coal - Anthracite | CRM | 6.40 | 87.34 | 2.86 | 33100 | 0.58 | 0.19 | 1.50 | 8.20 | | | | 50 g |
| NCS FC28103 | Coal - Anthracite | CRM | 10.51 | 81.55 | 3.33 | 31800 | 1.30 | 0.36 | 1.47 | 9.60 | | | | 50 g |
| NCS FC28104 | Coal - Anthracite | CRM | 10.09 | 81.45 | 3.52 | 32040 | 1.34 | 0.40 | 1.45 | 11.00 | | | | 50 g |
| NCS FC28105 | Coal - Anthracite | CRM | 9.61 | 81.40 | 3.70 | 32240 | 1.10 | 1.04 | 1.43 | 12.25 | | | | 50 g |
| NCS FC28106 | Coal - Bitumite | CRM | 8.60 | 79.98 | 4.95 | 32660 | 1.34 | 1.70 | 1.35 | 31.81 | | | | 50 g |
| NCS FC28107 | Coal - Bitumite | CRM | 10.41 | 79.70 | 3.80 | 31500 | 1.05 | 0.66 | 1.43 | 15.30 | | | | 50 g |
| NCS FC28108 | Coal - Bitumite | CRM | 13.68 | 72.94 | 4.46 | 29900 | 1.26 | 0.57 | 1.42 | 30.84 | | | | 50 g |
| NCS FC28109 | Coal - Anthracite | CRM | 11.98 | 79.42 | 3.28 | 30660 | 1.09 | 0.58 | 1.49 | 11.30 | | | | 50 g |
| NCS FC28110 | Coal - Bitumite | CRM | 8.40 | 75.96 | 4.52 | 30580 | 1.31 | 0.87 | 1.41 | 32.94 | | | | 50 g |
| NCS FC28111 | Coal - Bitumite | CRM | 25.50 | 59.75 | 3.73 | 23850 | 1.01 | 1.26 | 1.57 | 28.50 | | | | 50 g |
| NCS FC28112 | Coal - Bitumite | CRM | 8.08 | 78.64 | 5.01 | 32710 | 1.31 | 2.10 | 1.33 | 33.90 | | | | 50 g |
| NCS FC28113 | Coal - Bitumite | CRM | 7.06 | 74.80 | 4.47 | 30030 | 1.02 | 0.27 | 1.41 | 33.40 | | | | 50 g |
| NCS FC28114 | Coal - Bitumite | CRM | 4.66 | 76.69 | 4.42 | 30430 | 1.04 | 0.20 | 1.40 | 33.41 | | | | 50 g |
| NCS FC28115 | Coal - Bitumite | CRM | 6.38 | 77.44 | 4.42 | 31050 | 1.21 | 0.42 | 1.41 | 32.22 | | | | 50 g |
| NCS FC28116 | Coal - Bitumite | CRM | 6.08 | 78.68 | 4.59 | 31820 | 1.34 | 0.54 | 1.39 | 32.34 | | | | 50 g |
| NCS FC28140 | Coal - Bitumite | CRM | 25.88 | 58.12 | 3.40 | 22640 | 1.06 | 1.30 | 1.62 | 30.43 | | | | 50 g |

| 编号 | 描述 | 种类 | Ash % | C | Cl | CO2 | H | Heat (J/g) | N | P | S | T.S.G. | % Vol. | 规格 |
|---------------|---------------------|----|-------|---------|-------|---------|--------|------------|--------|-------|-------|--------|--------|-------|
| ACIRS-G4-2012 | General coal sample | RM | 10.62 | (79.38) | 0.040 | (0.040) | (4.39) | 32420 | (1.78) | 0.026 | 0.567 | 1.37 | 20.32 | 250 g |

| 编号 | 描述 | 种类 | As | Ash % | C | C (fx) | Cl | F | H | H2O | Heat (J/g) | Hg | N | O | % Vol. | S | 规格 |
|----------------|----------------------------------|-----|-----------|-------|------|--------|---------|----------|-------|--------|----------------|------------|-------|-------|--------|------|------|
| IARM HC-30025C | Sulfur and proximates in coe CRM | CRM | | 6.3 | 70 | (50) | (0.01) | (0.01) | 4.7 | (21) | (27600) | 0.000007 | 0.97 | 17.9 | 44 | 0.30 | 50 g |
| IARM HC-30050A | Sulfur and proximates in coe CRM | CRM | (0.0005) | 12.31 | 81.9 | 83 | 0.020 | (0.0100) | 1.4 | 4.1 | 10 BTU, 30,000 | 0.000011 | 0.8 | 3 | 5 | 0.55 | 50 g |
| IARM HC-30060A | Sulfur and proximates in coe CRM | CRM | (0.00033) | 11.5 | 82 | 82 | 0.023 | (0.0070) | 1.8 | (4) | (30400) | 0.000014 | 0.95 | 3.2 | 6 | 0.59 | 50 g |
| IARM HC-30075C | Sulfur and proximates in coe CRM | CRM | | 7.2 | 77.4 | 56 | (0.2) | | 5.0 | (1.9) | (32150) | 0.00002 | 1.47 | (8) | 36 | 0.76 | 50 g |
| IARM HC-30080A | Sulfur and proximates in coe CRM | CRM | (0.00030) | 11.76 | 79.3 | 78 | (0.012) | (0.0060) | 2.9 | 1.6 | 10 BTU, 31,200 | 0.000010 | 1.35 | 4 | 10 | 0.77 | 50 g |
| IARM HC-30100B | Sulfur and proximates in coe CRM | CRM | | 6.97 | 77 | (59) | (0.5) | | 5 | (6.32) | (31100) | (0.000007) | (1.8) | (9) | 34 | 1.00 | 50 g |
| IARM HC-30150D | Sulfur and proximates in coe CRM | CRM | | 20.1 | 65 | 47 | (0.21) | (0.02) | 4.5 | 4.0 | 25 BTU 26,600 | (0.00002) | 1.27 | (6.7) | 33 | 1.75 | 50 g |
| IARM HC-30250A | Sulfur and proximates in coe CRM | CRM | (0.0030) | 32.9 | 57.1 | 47.9 | 0.09 | (0.02) | 3.2 | 0.71 | (23630) | 0.00004 | 1.0 | 3.2 | 19.3 | 2.5 | 50 g |
| IARM HC-30300B | Sulfur and proximates in coe CRM | CRM | | 8.6 | 77 | (51.0) | | | 5.0 | (1.2) | (13,900) BTU | | 1.6 | 5.7 | 40 | 3.02 | 50 g |
| IARM HC-30450A | Sulfur and proximates in coe CRM | CRM | | 16.8 | 64 | (44) | | | (4.7) | (4.9) | (11,640) BTU | | (1.2) | (7.5) | 39 | 4.72 | 50 g |
| IARM HC-30500B | Sulfur and proximates in coe CRM | CRM | | 22.3 | 64.2 | (45) | (0.2) | | 4.2 | (1.1) | (27000) | (0.0001) | 1.10 | 3 | 32 | 5.4 | 50 g |
| IARM HC-30800A | Sulfur and proximates in coe CRM | CRM | (0.006) | 23.9 | 57 | 42 | (0.07) | (0.01) | 4.1 | (2) | (25050) | (0.00006) | 1.1 | (5.3) | 35 | 8.6 | 50 g |

Coal continued 煤

| 编号 | 描述 | 种类 | Al | Ca | Cd | Co | Cr | Cu | Fe | K | Mg | Mn | Na | Ni | 规格 |
|-------------|-------------------|-----|------|------|-----------|--------|--------|--------|------|-------|-------|--------|-------|--------|------|
| NCS FC28122 | Coal - Anthracite | CRM | 0.25 | 0.85 | | 0.0008 | 0.0002 | 0.0002 | 1.79 | 0.016 | 0.24 | 0.022 | 0.081 | 0.0008 | 50 g |
| NCS FC28123 | Coal - Anthracite | CRM | 1.88 | 0.74 | (<0.0001) | 0.0004 | 0.0010 | 0.0012 | 0.35 | 0.026 | 0.081 | 0.0030 | 0.11 | 0.0008 | 50 g |
| NCS FC28124 | Coal - Anthracite | CRM | 1.75 | 0.79 | (<0.0001) | 0.0004 | 0.0007 | 0.0012 | 0.34 | 0.020 | 0.071 | 0.0016 | 0.13 | 0.0008 | 50 g |
| NCS FC28125 | Coal - Anthracite | CRM | 2.27 | 0.28 | (<0.0001) | 0.0011 | 0.0005 | 0.0017 | 0.24 | 0.090 | 0.050 | 0.0009 | 0.048 | 0.0018 | 50 g |
| NCS FC28126 | Coal - Bitumite | CRM | 0.83 | 0.65 | (<0.0001) | 0.0003 | 0.0005 | 0.0008 | 0.32 | 0.010 | 0.060 | 0.008 | 0.034 | 0.0005 | 50 g |

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|-------------|-----------------|-----|------|------|--------|--------|--------|--------|------|-------|-------|--------|-------|--------|------|
| NCS FC28127 | Coal - Bitumite | CRM | 3.47 | 1.88 | 0.0002 | 0.0009 | 0.0023 | 0.0023 | 1.02 | 0.29 | 0.28 | 0.019 | 0.052 | 0.0016 | 50 g |
| NCS FC28128 | Coal - Bitumite | CRM | 1.22 | 0.19 | | 0.0004 | 0.0008 | 0.0012 | 0.86 | 0.043 | 0.059 | 0.0026 | 0.026 | 0.0008 | 50 g |

| 编号 | P | Pb | Si | Ti | V | Zn |
|-------------|--------|--------|------|-------|--------|----------|
| NCS FC28122 | 0.0029 | 0.002 | 0.47 | 0.010 | 0.0001 | |
| NCS FC28123 | 0.066 | 0.0016 | 1.86 | 0.096 | 0.0012 | (0.001) |
| NCS FC28124 | 0.044 | 0.0016 | 1.77 | 0.079 | 0.0011 | |
| NCS FC28125 | 0.013 | 0.0016 | 2.69 | 0.090 | 0.0033 | |
| NCS FC28126 | 0.019 | | 1.01 | 0.046 | 0.0011 | |
| NCS FC28127 | 0.010 | | 5.61 | 0.18 | 0.0060 | 0.0040 |
| NCS FC28128 | 0.0044 | | 1.64 | 0.059 | 0.0028 | (<0.001) |

| 编号 | 描述 | 种类 | Al2O3 | Ash % | C | CaO | Density (g/cm3) | Fe2O3 (total) | H | Heat (J/g) | Hg | K2O | LOI | MgO | 规格 |
|---------|--------------------|----|---------|-------|-------|---------|-----------------|---------------|------|------------|-----------|--------|--------|--------|------------------|
| CGL-401 | Brown coal "BNN" | RM | (10.78) | 9.04 | 70.49 | (20.26) | (1.5) | (5.84) | 5.27 | 28950 | | (0.45) | (5.87) | (1.56) | 150 g |
| CGL-402 | Hard coal "SOEN" | RM | (11.58) | 6.29 | 76.62 | (14.98) | (1.39) | (26.50) | 5.41 | 32160 | (0.00004) | (0.35) | (5.82) | (5.76) | 80 / 200 g |
| CGL-403 | Coking coal "TTKN" | RM | (11.18) | 15.2 | | (17.62) | (1.4) | (16.17) | 4.88 | 35260 | | (0.40) | (5.84) | (3.66) | 80, 150, / 200 g |

| 编号 | MnO | Na2O | P2O5 | S | SiO2 | SO3 | TiO2 | % Vol. |
|---------|--------|--------|--------|------|---------|---------|--------|--------|
| CGL-401 | (0.17) | (0.35) | (0.75) | 0.54 | (45.83) | (9.00) | (0.55) | 46.28 |
| CGL-402 | (8.20) | (0.15) | (0.66) | 0.78 | (12.49) | (16.05) | (0.56) | 44.8 |
| CGL-403 | (4.19) | (0.25) | (0.70) | 1.21 | (29.16) | (12.52) | (0.56) | 29.3 |

| 编号 | 描述 | 种类 | Al2O3 | As | Ba | Be | CaO | Ce | Co | Cr | Cs | Cu | Fe2O3 | Ga | 规格 |
|---------|------------------|-----|-------|---------|--------|---------|------|--------|---------|----------|----------|---------|-------|----------|-------|
| SARM 18 | Coal (Witbank) | CRM | 2.57 | | 0.0078 | 0.00041 | 0.18 | 0.0022 | 0.00067 | 0.0016 | (0.0001) | 0.00059 | 0.29 | (0.0008) | 120 g |
| SARM 19 | Coal (OFS) | CRM | 8.01 | 0.0007 | 0.0304 | 0.00028 | 1.39 | 0.0056 | 0.00056 | 0.0050 | 0.00014 | 0.0013 | 1.75 | 0.0014 | 120 g |
| SARM 20 | Coal (Sasolburg) | CRM | 11.27 | 0.00047 | 0.0372 | 0.00025 | 1.87 | 0.0087 | 0.00083 | (0.0067) | (0.0002) | 0.0018 | 1.17 | 0.0016 | 120 g |

| 编号 | Ge | Hf | Hg | K2O | La | LOI | MgO | Mn | Na2O | Ni | P | P2O5 |
|---------|----------|---------|------------|-------|--------|-------|------|--------|------|---------|--------|------|
| SARM 18 | (0.0008) | 0.00017 | (0.000004) | 0.145 | 0.0010 | 90.11 | 0.11 | 0.0022 | | 0.00108 | 0.0030 | |
| SARM 19 | 0.0013 | 0.00054 | (0.00002) | 0.24 | 0.0027 | 71.28 | 0.20 | 0.0157 | 0.29 | 0.0016 | 0.0130 | |
| SARM 20 | | 0.00048 | 0.000025 | 0.14 | 0.0043 | 64.66 | 0.43 | 0.0080 | 0.27 | 0.0025 | | 0.14 |

| 编号 | Pb | Rb | S | Sc | Se | SiO2 | Sm | Sr | Ta | Th | TiO2 | U |
|---------|----------|---------|------|---------|---------|-------|---------|--------|---------|---------|-------|---------|
| SARM 18 | (0.0005) | 0.00081 | 0.56 | 0.00043 | | 6.20 | 0.00020 | 0.0044 | | 0.00034 | 0.114 | 0.00015 |
| SARM 19 | 0.0020 | 0.0009 | 1.49 | 0.00076 | | 15.00 | 0.00049 | 0.0126 | | 0.0012 | 0.341 | 0.0005 |
| SARM 20 | 0.0026 | 0.0010 | 0.51 | 0.0010 | 0.00008 | 17.66 | 0.00063 | 0.0330 | 0.00012 | 0.0018 | 0.63 | 0.0004 |

| 编号 | V | Y | Zn | Zr |
|---------|--------|--------|---------|----------|
| SARM 18 | 0.0023 | | 0.00055 | 0.0067 |
| SARM 19 | 0.0035 | | 0.0012 | 0.0351 |
| SARM 20 | 0.0047 | 0.0029 | 0.0017 | (0.0180) |

Coal continued

| 编号 | 描述 | 种类 | Al2O3 | As | % Ash | Ba | CaO | Ce | Co | Cr | Cu | Fe (tot)* | Ga | Hg | 规格 |
|----|----|----|-------|----|-------|----|-----|----|----|----|----|-----------|----|----|----|
|----|----|----|-------|----|-------|----|-----|----|----|----|----|-----------|----|----|----|

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|----------|------------------|-----|--------|----------|-------|--------|------|--------|---------|---------|----------|------|----------|-----------|------|
| UG-CLB-1 | Coal, bituminous | CRM | (1.51) | (0.0013) | (6.3) | 0.0034 | 0.22 | 0.0010 | 0.00070 | 0.00097 | (0.0010) | 1.25 | (0.0003) | (0.00002) | 50 g |
|----------|------------------|-----|--------|----------|-------|--------|------|--------|---------|---------|----------|------|----------|-----------|------|

| 编号 | K2O | La | Li | MgO | Mn | Mo | Na2O | Nb | Nd | Ni | P2O5 | Pb |
|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|---------|
| UG-CLB-1 | 0.0760 | (0.0005) | (0.0008) | 0.0470 | (0.0008) | (0.0009) | 0.0230 | (0.0001) | (0.0005) | 0.0018 | (0.0700) | 0.00051 |

| 编号 | Rb | S | Sb | Sc | Se | SiO2 | Th | TiO2 | U | V | Zn |
|----------|---------|------------|-----------|---------|----------|--------|-----------|----------|------------|--------|--------|
| UG-CLB-1 | 0.00052 | (1.49 tot) | (0.00015) | 0.00020 | (0.0002) | (2.51) | (0.00014) | (0.0780) | (0.000055) | 0.0012 | 0.0048 |

| 编号 | 描述 | 种类 | Ash % | Cl | Hg | S | 规格 |
|------------|-------------------|-----|---------|--------------|------------|--------|------|
| NIST-2692C | Coal - bituminous | CRM | (7.499) | (0.00001338) | 0.00001790 | 1.064 | 50 g |
| NIST-2693 | Coal - bituminous | CRM | (9.44) | 0.03696 | 0.00000373 | 0.4571 | 50 g |

| 编号 | 描述 | 种类 | Ash % | Al | As | B | Ba | Br | C | Ca | Cd | Ce | Cl | Co | 规格 |
|------------|-------------------|-----|---------|---------|-----------|----------|----------|-----------|---------|---------|------------|-----------|-----------|-----------|-----|
| NIST-1632D | Coal - bituminous | CRM | (7.078) | (0.912) | (0.00061) | (0.0062) | 0.004042 | | (76.88) | (0.144) | (0.000008) | (0.00117) | 0.1142 | 0.0003424 | 50g |
| NIST-1635A | Coal - bituminous | CRM | (6.29) | 0.5437 | 0.0000860 | 0.00360 | 0.03578 | (0.0001) | (68.97) | 1.087 | 0.0000282 | 0.000545 | (0.0051) | 0.0002004 | 50g |
| NIST-2682B | Coal - bituminous | CRM | (6.32) | (0.46) | (0.00010) | (0.0039) | (0.0382) | (0.00037) | (66.6) | (1.1) | | (0.0010) | (0.00161) | (0.00017) | 50g |
| NIST-2683C | Coal - bituminous | CRM | (9.870) | | | | | | (73.38) | | | | (0.1127) | | 50g |
| NIST-2685B | Coal - bituminous | CRM | (15.94) | (1.7) | (0.0012) | (0.0109) | (0.0105) | (0.00056) | (64.6) | (0.52) | | (0.0018) | 0.0517 | (0.00046) | 50g |

| 编号 | Cr | Cs | Cu | Dy | Eu | F | Fe | H | Heat (J/g) | H2O | Hf | Hg |
|------------|-----------|-------------|----------|-----------|-------------|-----------|--------|-------|---------------|----------------------|------------|------------|
| NIST-1632D | (0.00137) | (0.0000598) | 0.000583 | (0.00009) | (0.0000217) | (0.00636) | 0.749 | 5.10 | (13,821) BTU | | (0.00005) | 0.00000928 |
| NIST-1635A | 0.000356 | 0.00000998 | 0.001142 | | 0.00001115 | (0.0063) | 0.2472 | 3.92 | (11,6664) BTU | | 0.000314 | 0.00000836 |
| NIST-2682B | (0.0015) | (<0.00001) | | | (0.000017) | | (0.24) | (4.3) | (25660) | | (0.000060) | 0.00001088 |
| NIST-2683C | | | | | | | | | (4.886) | (13,003) BTU (3.185) | | 0.00000900 |
| NIST-2685B | (0.0022) | (0.00013) | | | (0.000036) | | (3.9) | (4.5) | (26940) | | (0.000091) | 0.00001462 |

| 编号 | K | LOI | La | Mg | Mn | Mo | N | Na | Ni | Pb | Rb | S |
|------------|---------|---------|-----------|----------|-----------|----------|---------|---------|----------|-----------|-----------|---------|
| NIST-1632D | 0.1094 | (1.914) | (0.0006) | (0.0390) | (0.00131) | | (1.59) | 0.02969 | (0.0010) | 0.0003845 | 0.000736 | 1.462 |
| NIST-1635A | 0.01874 | (20.54) | | 0.2303 | 0.000669 | 0.000636 | (946) | 0.1031 | 0.000537 | 0.000285 | 0.0001226 | (0.294) |
| NIST-2682B | (0.01) | | (0.00052) | (0.2) | (0.0026) | | (1.0) | (0.10) | | | (<0.0002) | 0.4917 |
| NIST-2683C | | | | | | | (1.635) | | | | | 1.955 |
| NIST-2685B | (0.26) | | (0.0010) | (0.1) | (0.0041) | | (1.1) | (0.08) | | | (0.0017) | 4.730 |

| 编号 | Sb | Sc | Se | Si | Sm | Sr | Th | Ti | U | V | W | % Vol. | Zn |
|------------|------------|------------|------------|--------|------------|---------|-----------|---------|------------|----------|-----------|-----------|-----------|
| NIST-1632D | 0.0000445 | (0.000289) | (0.000129) | (1.65) | (0.0001) | 0.00635 | 0.0001428 | 0.0477 | 0.0000517 | 0.002374 | | (36.04) | (0.00129) |
| NIST-1635A | 0.0000251 | 0.0001240 | 0.0000662 | | 0.0000483 | 0.0160 | 0.0001299 | 0.05240 | 0.00004792 | 0.001334 | | (44.75) | 0.00073 |
| NIST-2682B | (0.000019) | (0.00015) | (0.000091) | | (0.000078) | | (0.00015) | (0.05) | (0.000052) | (0.0015) | | (0.00018) | (0.00086) |
| NIST-2683C | | | | | | | | | | | | | (35.84) |
| NIST-2685B | (0.000036) | (0.00037) | (0.00019) | | (0.00017) | | (0.00027) | (0.09) | (0.000095) | (0.0031) | (0.00012) | | (0.0017) |

| 编号 | 描述 | 种类 | Ash % | Cl (µg/g) | Hg (µg/g) | S | 规格 |
|---------|------|-----|-------|-----------|-----------|------|-----|
| AR-3701 | Coal | CRM | 7.22 | (1562) | 0.06 | 1.04 | 25g |
| AR-3702 | Coal | CRM | 6.45 | (1713) | 0.04 | 0.77 | 25g |
| AR-3703 | Coal | CRM | 7.64 | (<0.01) | 0.1 | 0.45 | 25g |
| AR-3704 | Coal | CRM | 10.31 | (<0.01) | 0.12 | 1.17 | 25g |
| AR-3705 | Coal | CRM | 11.8 | (<0.01) | 0.16 | 4.71 | 25g |

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Coal continued

| 编号 | 描述 | 种类 | C | H | N | 规格 |
|---------|------|-----|-------|------|-------|-----|
| AR-1905 | Coal | CRM | 77.1 | 1.88 | (1.0) | 25g |
| AR-1906 | Coal | CRM | 64.22 | 4.49 | 1.31 | 25g |
| AR-1907 | Coal | CRM | 62.34 | 3.31 | 1.01 | 25g |
| AR-1907 | Coal | CRM | 67.45 | 4.03 | 1.25 | 25g |

| 编号 | 描述 | 种类 | S | 规格 |
|---------|-----------------------|-----|-------|-----|
| AR-1681 | Ultra low sulfur coal | CRM | 0.00 | 25g |
| AR-1682 | Ultra low sulfur coal | CRM | 0.022 | 25g |
| AR-1683 | Ultra low sulfur coal | CRM | 0.049 | 25g |
| AR-1684 | Ultra low sulfur coal | CRM | 0.101 | 25g |
| AR-1685 | Ultra low sulfur coal | CRM | 0.143 | 25g |

| 编号 | 描述 | 种类 | S | 规格 |
|---------|---------|-----|------|-----|
| AR-1700 | Coal | CRM | 0.38 | 50g |
| AR-1701 | Coal | CRM | 0.45 | 50g |
| AR-1702 | Coal | CRM | 0.72 | 50g |
| AR-1703 | Coal | CRM | 0.83 | 50g |
| AR-1704 | Coal | CRM | 1.09 | 50g |
| AR-1705 | Coal | CRM | 1.43 | 50g |
| AR-1706 | Coal | CRM | 1.8 | 50g |
| AR-1707 | Coal | CRM | 2.37 | 50g |
| AR-1708 | Coal | CRM | 2.83 | 50g |
| AR-1709 | Coal | CRM | 3.60 | 50g |
| AR-1710 | Coal | CRM | 4.15 | 50g |
| AR-1711 | Coal | CRM | 5.59 | 50g |
| AR-1712 | Coal | CRM | 6.24 | 50g |
| AR-1713 | Lignite | CRM | 1.18 | 50g |

| 编号 | 描述 | 种类 | S | Ash % | % Vol. | BTU | C (fx) | 规格 |
|---------|----------------|-----|------|-------|--------|-------|--------|-----|
| AR-1720 | Proximate coal | CRM | 0.32 | 6.60 | 42.77 | 11644 | 50.63 | 50g |
| AR-1721 | Proximate coal | CRM | 0.56 | 7.33 | 42.96 | 11195 | 49.71 | 50g |
| AR-1722 | Proximate coal | CRM | 0.84 | 20.57 | 23.01 | 12034 | 56.42 | 50g |
| AR-1723 | Proximate coal | CRM | 1.20 | 6.67 | 42.29 | 12937 | 51.04 | 50g |
| AR-1724 | Proximate coal | CRM | 1.52 | 4.38 | 37.21 | 14239 | 58.40 | 50g |
| AR-1726 | Proximate coal | CRM | 1.91 | 17.98 | 26.33 | 11949 | 55.69 | 50g |
| AR-1727 | Proximate coal | CRM | 2.34 | 21.38 | 28.07 | 11645 | 50.51 | 50g |
| AR-1728 | Proximate coal | CRM | 2.95 | 7.69 | 39.35 | 12357 | 52.96 | 50g |
| AR-1729 | Proximate coal | CRM | 3.42 | 22.88 | 25.98 | 11250 | 51.14 | 50g |
| AR1730 | Proximate coal | CRM | 5.06 | 12.03 | 38.22 | 12882 | 49.75 | 50g |
| AR-1731 | Proximate coal | CRM | 5.51 | 45.14 | 20.00 | 7798 | 34.86 | 50g |
| AR-1732 | Proximate coal | CRM | 6.05 | 19.21 | 29.75 | 12214 | 51.04 | 50g |
| AR-1733 | Proximate coal | CRM | 0.55 | 17.58 | 6.08 | 11990 | 76.34 | 50g |

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|---------|----------------|-----|------|------|-------|-------|-------|--|--|--|--|--|--|--|-----|
| AR-1933 | Proximate coal | CRM | 0.61 | 7.56 | 38.38 | 13594 | 54.06 | | | | | | | | 50g |
|---------|----------------|-----|------|------|-------|-------|-------|--|--|--|--|--|--|--|-----|

Coal continued

| 编号 | 描述 | 种类 | Ash % | % Vol. | C (fx) | BTU | S | C | H | N/A | Cl | O | Pyritic | SO2 | Organic matter | 规格 |
|---------|-------------------|-----|-------|--------|--------|-------|------|-------|------|------|-------|-------|---------|------|----------------|-----|
| AR-2773 | Coal | CRM | 7.33 | 42.96 | 49.71 | 11195 | 0.56 | 66.91 | 4.38 | 1.00 | <0.01 | 19.82 | 0.03 | 0.13 | 0.40 | 50g |
| AR-2775 | Coal | CRM | 6.60 | 42.77 | 50.63 | 11644 | 0.32 | 68.67 | 4.55 | 1.02 | <0.01 | 18.84 | 0.01 | 0.01 | 0.30 | 50g |
| AR-2776 | Coal | CRM | 20.57 | 23.01 | 56.42 | 12034 | 0.84 | 68.65 | 3.94 | 1.18 | 0.14 | 4.82 | 0.04 | 0.29 | 0.51 | 50g |
| AR-2778 | Coal | CRM | 28.67 | 20.14 | 51.19 | 10498 | 0.68 | 62.34 | 3.31 | 1.01 | 0.1 | 4.03 | 0.10 | 0.02 | 0.56 | 50g |
| AR-2780 | Coal | CRM | 22.86 | 25.99 | 51.15 | 11255 | 3.42 | 62.99 | 3.81 | 1.11 | 0.16 | | 1.43 | 0.91 | 1.08 | 50g |
| AR-2781 | Coal | CRM | 17.98 | 26.33 | 55.69 | 11949 | 1.91 | 67.68 | 3.97 | 1.29 | 0.12 | 7.17 | 0.34 | 0.82 | 0.75 | 50g |
| AR-2782 | Coal | CRM | 12.03 | 38.22 | 49.75 | 11333 | 5.06 | 64.22 | 4.49 | 1.31 | | 12.89 | 0.76 | 1.95 | 2.35 | 50g |
| AR-2783 | Coal - Anthracite | CRM | 17.58 | 6.08 | 76.34 | 11990 | 0.55 | 77.07 | 1.88 | 1.02 | 0.01 | 1.9 | 0.07 | 0.43 | 0.05 | 50g |

| 编号 | P2O5 | SiO2 | Fe2O3 | Al2O3 | TiO2 | SO2 | K2O | Na2O | CaO | MgO | SrO | BaO | MnO |
|---------|------|-------|-------|-------|------|-------|------|------|-------|------|------|-------|------|
| AR-2773 | 1.29 | 27.75 | 5.63 | 14.64 | 1.17 | 17.82 | 0.26 | 0.47 | 24.02 | 5.99 | 0.42 | 0.60 | 0.01 |
| AR-2775 | 0.74 | 32.41 | 4.47 | 15.41 | 1.24 | 10.58 | 0.36 | 1.85 | 24.18 | 6.62 | 0.41 | 0.68 | 0.03 |
| AR-2776 | 0.13 | 61.14 | 4.86 | 26.80 | 1.49 | 0.53 | 2.96 | 0.27 | 0.58 | 1.13 | 0.04 | 0.03 | 0.02 |
| AR-2778 | 0.19 | 43.71 | 24.13 | 17.10 | 1.18 | 3.40 | 1.46 | 0.24 | 5.85 | 1.29 | 0.05 | 0.06 | 0.23 |
| AR-2780 | 0.20 | 49.49 | 18.42 | 24.58 | 1.25 | 1.06 | 2.62 | 0.18 | 1.15 | 0.87 | 0.05 | 0.09 | 0.03 |
| AR-2781 | 0.44 | 51.53 | 11.27 | 25.96 | 1.23 | 2.58 | 2.55 | 0.36 | 2.54 | 0.97 | 0.09 | <0.01 | 0.02 |
| AR-2782 | 0.12 | 40.6 | 33.43 | 17.08 | 0.87 | 2.09 | 2.08 | 0.21 | 2.11 | 0.93 | 0.01 | 0.06 | 0.02 |
| AR-2783 | 0.16 | 56.79 | 5.2 | 29.58 | 2.33 | 0.37 | 3.06 | 0.41 | 0.6 | 0.83 | 0.03 | 0.14 | 0.03 |

Ash fusion temperature for the materials above (Temperature in Degrees F)

| | AR-2773 | AR-2775 | AR-2776 | AR-2778 | AR-2780 | AR-2781 | AR-2782 | AR-2783 |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Initial Reducing | 2155 | 2147 | 2633 | 2031 | 2163 | 2404 | 1972 | 2640 |
| Initial Oxidizing | | 2181 | | 2363 | 2538 | 2563 | | 2730 |
| Softening Reducing (H= W) | 2165 | 2164 | 2693 | 2074 | 2370 | 2467 | 1988 | 2670 |
| Softening Oxidizing (H= W) | | 2212 | | 2404 | 2589 | 2620 | | 2733 |
| Softening Reducing (H=½W) | 2179 | 2179 | 2701 | 2169 | 2454 | 2533 | 2048 | 2690 |
| Softening Oxidizing (H=½W) | | 2229 | | 2473 | 2621 | 2664 | | 2733 |
| Fluid - Reducing | 2223 | 2219 | 2721 | 2210 | 2546 | 2597 | 2139 | 2700 |
| Fluid - Oxidizing | | 2275 | | 2503 | 2656 | <2700 | | 2733 |

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Coal ash 煤灰

| 编号 | 描述 | 种类 | Al ₂ O ₃ | CaO | Fe ₂ O ₃ | K ₂ O | MgO | Na ₂ O | P ₂ O ₅ | SO ₃ | SiO ₂ | TiO ₂ | 规格 |
|-------------|------------|-----|--------------------------------|-------|--------------------------------|------------------|------|-------------------|-------------------------------|-----------------|------------------|------------------|------|
| NCS FC82012 | Coal - Ash | CRM | 14.96 | 21.37 | 5.51 | 1.41 | 1.73 | 1.36 | 0.50 | 3.94 | 46.77 | 0.63 | 30 g |
| NCS FC82014 | Coal - Ash | CRM | 31.70 | 1.44 | 7.80 | 1.36 | 1.08 | 0.22 | 0.28 | 0.28 | 53.98 | 1.17 | 30 g |
| NCS FC82015 | Coal - Ash | CRM | 17.88 | 6.11 | 6.04 | 0.87 | 0.90 | 1.18 | 0.85 | 1.20 | 62.93 | 0.79 | 30 g |
| NCS FC82016 | Coal - Ash | CRM | 33.78 | 5.50 | 4.36 | 0.87 | 0.76 | 0.41 | 0.18 | 1.25 | 50.08 | 1.77 | 30 g |
| NCS FC82017 | Coal - Ash | CRM | 10.00 | 42.40 | 8.16 | 1.28 | 1.17 | 0.46 | 0.04 | 2.76 | 31.24 | 0.56 | 30 g |

| 编号 | 描述 | 种类 | Al ₂ O ₃ | CaO | Fe ₂ O ₃ | K ₂ O | MgO | MnO | Na ₂ O | P ₂ O ₅ | SO ₃ | SiO ₂ | TiO ₂ | V ₂ O ₅ | 规格 |
|-------------|------------|-----|--------------------------------|-------|--------------------------------|------------------|------|--------|-------------------|-------------------------------|-----------------|------------------|------------------|-------------------------------|-----|
| NCS FC28145 | Coal - Ash | CRM | 7.34 | 18.37 | 39.61 | 0.30 | 6.05 | 0.44 | 1.69 | 0.10 | (7.42) | 15.66 | 0.26 | 0.0042 | 5 g |
| NCS FC28146 | Coal - Ash | CRM | 33.71 | 9.90 | 4.74 | 0.30 | 1.27 | 0.037 | 1.45 | 1.44 | (7.68) | 37.86 | 1.52 | 0.020 | 5 g |
| NCS FC28147 | Coal - Ash | CRM | 32.78 | 10.97 | 4.81 | 0.24 | 1.17 | 0.020 | 1.75 | 1.00 | (8.35) | 37.52 | 1.31 | 0.019 | 5 g |
| NCS FC28148 | Coal - Ash | CRM | 35.80 | 3.27 | 2.81 | 0.90 | 0.69 | 0.0073 | 0.54 | 0.25 | (6.33) | 48.03 | 1.25 | 0.049 | 5 g |
| NCS FC28149 | Coal - Ash | CRM | 25.92 | 14.92 | 7.56 | 0.20 | 1.63 | 0.17 | 0.75 | 0.72 | (11.25) | 35.54 | 1.26 | 0.032 | 5 g |
| NCS FC28150 | Coal - Ash | CRM | 26.03 | 10.44 | 5.79 | 1.41 | 1.87 | 0.097 | 0.28 | 0.091 | (5.05) | 47.64 | 1.21 | 0.042 | 5 g |
| NCS FC28151 | Coal - Ash | CRM | 28.53 | 3.33 | 15.18 | 0.64 | 1.21 | 0.042 | 0.43 | 0.12 | (5.75) | 43.42 | 1.22 | 0.062 | 5 g |

| 编号 | 描述 | 种类 | Al | As | B | Be | C | Ca | Cd | Co | Cr | Cu | F | 规格 |
|-----------|------------|-----|-------|---------|---------|---------|------|------|------------|---------|--------|--------|----------|------|
| JSAC 0521 | Coal - Ash | CRM | 13.48 | 0.00197 | 0.0148 | 0.00303 | 1.21 | 1.31 | (0.000046) | 0.00278 | 0.0102 | 0.0103 | 0.0153 | 50 g |
| JSAC 0522 | Coal - Ash | CRM | 15.20 | 0.00552 | 0.00856 | 0.00104 | 1.03 | 0.93 | 0.000098 | 0.00474 | 0.0139 | 0.113 | (0.0033) | 50 g |

| 编号 | Fe | Hg | K | LOI | Mg | Mn | Na | Ni | P | Pb | S |
|-----------|------|-------------|------|------|------|--------|------|--------|-------|---------|-------|
| JSAC 0521 | 3.09 | 0.000014 | 1.99 | 1.47 | 0.87 | 0.0315 | 0.48 | 0.0628 | 0.400 | 0.00540 | 0.066 |
| JSAC 0522 | 2.92 | (<0.000001) | 0.24 | 1.36 | 0.36 | 0.0240 | 0.13 | 0.0106 | 0.146 | 0.00981 | 0.067 |

| 编号 | Se | Si | Sr | Ti | V | Zn |
|-----------|------------|-------|-------|------|--------|--------|
| JSAC 0521 | 0.000075 | 27.16 | 0.113 | 0.65 | 0.0225 | 0.0137 |
| JSAC 0522 | (<0.00001) | 27.76 | 0.122 | 1.03 | 0.0130 | 0.0303 |

| 编号 | 描述 | 种类 | Al | As | Ba | Be | Ca | Cd | Co | Cr | Cs | Eu | Fe | 规格 |
|-----------|--------------|-----|-------|----------|----------|----------|-------|-----------|----------|----------|----------|----------|------|-------|
| NIST-2689 | Coal fly ash | CRM | 12.94 | (0.0200) | (0.0800) | (0.0021) | 2.18 | (0.0003) | (0.0048) | (0.0170) | (0.0011) | (0.0003) | 9.32 | 3x10g |
| NIST-2690 | Coal fly ash | CRM | 12.35 | (0.0026) | (0.5800) | (0.0008) | 5.71 | (0.00007) | (0.0019) | (0.0067) | (0.0008) | (0.0002) | 3.57 | 3x10g |
| NIST-2691 | Coal fly ash | CRM | 9.81 | (0.0030) | (0.5900) | (0.0008) | 18.45 | (0.00009) | (0.0026) | (0.0068) | (0.0001) | (0.0002) | 4.42 | 3x10g |

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| 编号 | Hf | Hg | K | LOI | Mg | Mn | Na | Ni | P | Pb | S |
|-----------|----------|--------------|------|--------|------|----------|------|----------|------|----------|------|
| NIST-2689 | (0.0007) | (<0.0000003) | 2.20 | (1.76) | 0.61 | (0.0300) | 0.25 | (0.0122) | 0.10 | (0.0052) | |
| NIST-2690 | (0.0008) | (<0.0000003) | 1.04 | (0.53) | 1.53 | (0.0300) | 0.24 | (0.0046) | 0.52 | (0.0039) | 0.15 |
| NIST-2691 | (0.0010) | (<0.0000003) | 0.34 | (0.23) | 3.12 | (0.0200) | 1.09 | (0.0053) | 0.51 | (0.0029) | 0.83 |

| 编号 | Sb | Sc | Se | Si | Sr | Th | Ti | Zn |
|-----------|----------|----------|-----------|-------|----------|----------|------|----------|
| NIST-2689 | (0.0009) | (0.0032) | (0.0007) | 24.06 | (0.0700) | (0.0025) | 0.75 | (0.0240) |
| NIST-2690 | (0.0006) | (0.0017) | (0.00008) | 25.85 | (0.2000) | (0.0025) | 0.52 | (0.0120) |
| NIST-2691 | (0.0003) | (0.0024) | (0.0017) | 16.83 | (0.2700) | (0.0026) | 0.90 | (0.0120) |

| 编号 | 描述 | 种类 | Al2O3 | BaO | CaO | Fe2O3 | K2O | MgO | Mn3O4 | Na2O | P2O5 | SO3 | SiO2 | SrO | TiO2 | 规格 |
|-----------|----------|----|-------|------|------|-------|------|------|-------|------|------|------|------|------|------|-------|
| ASRM010-2 | Coal ash | RM | 27.1 | 0.14 | 3.47 | 10.8 | 0.92 | 1.40 | 0.16 | 0.47 | 1.13 | 0.21 | 52.2 | 0.11 | 1.34 | 100 g |

Coal ash continued

| 编号 | 描述 | 种类 | Al | As | Ba | Be | Ca | Cd | Ce | Co | Cr | Cs | Cu | 规格 |
|------------|--------------|-----|-------|---------|--------|----------|-------|-----------|----------|---------|----------|------------|---------|-----|
| NIST-1633C | Coal fly ash | CRM | 13.28 | 0.01862 | 0.1126 | (0.0016) | 1.365 | 0.0000758 | (0.0180) | 0.00429 | (0.0258) | (0.000939) | 0.01737 | 75g |

| 编号 | Dy | Eu | F | Fe | Ga | Hf | Hg | In | K | La | Lu |
|------------|------------|------------|---|-------|----------|-----------|-----------|------------|-------|-----------|------------|
| NIST-1633C | (0.001870) | (0.000467) | | 10.49 | (0.0055) | (0.00060) | 0.0001005 | (0.000014) | 1.773 | (0.00870) | (0.000132) |

| 编号 | Mg | Mn | Na | Nd | Ni | P | Pb | Rb | S | Sb | Sc |
|------------|-------|---------|--------|----------|--------|---------|---------|----------|---------|----------|-----------|
| NIST-1633C | 0.498 | 0.02402 | 0.1707 | (0.0087) | 0.0132 | (0.192) | 0.00952 | 0.011742 | (0.110) | 0.000856 | (0.00376) |

| 编号 | Se | Si | Sm | Sr | Ta | Tb | Th | Ti | U | V | Yb | Zn |
|------------|-----------|---------|----------|--------|------------|------------|-----------|-------|------------|---------|-----------|----------|
| NIST-1633C | (0.00139) | (21.30) | (0.0019) | 0.0901 | (0.000158) | (0.000312) | (0.00230) | 0.724 | (0.000925) | 0.02862 | (0.00077) | (0.0235) |

| 编号 | 描述 | 种类 | Al2O3 | As | Be | C | CaO | Co | Cr | Cs | Cu | FeO | Fe2O3 | 规格 |
|------------|--------------|-----|-------|---------|----------|--------|------|---------|--------|---------|--------|------|-------|-------|
| GSJ-JCFA-1 | Coal fly ash | CRM | 24.25 | 0.00291 | 0.000406 | 1.3500 | 8.91 | 0.00374 | 0.0075 | 0.00086 | 0.0122 | 0.88 | 4.22 | 100 g |

| 编号 | Fe (tot)* | H2O | H2O+ | K2O | Li | MgO | MnO | Na2O | Ni | P2O5 | Pb |
|------------|-----------|------|------|------|--------|------|-------|------|---------|-------|---------|
| GSJ-JCFA-1 | 5.2 | 0.18 | 0.37 | 1.27 | 0.0091 | 2.12 | 0.068 | 2.24 | 0.00322 | 0.586 | 0.00472 |

| 编号 | Rb | S | Sb | SiO2 | Sr | TiO2 | V | Zn |
|------------|---------|--------|---------|-------|--------|------|--------|--------|
| GSJ-JCFA-1 | 0.00541 | 0.1960 | 0.00021 | 50.56 | 0.1100 | 1.31 | 0.0243 | 0.0063 |

| 编号 | 描述 | 种类 | Ag | Al | As | Au | B | Ba | Be | Br | Ca | Cd | Ce | 规格 |
|----------------|---------------------------|-----|-----------|------|---------|-------------|--------|----------|----------|----------|------|---------|-----------|------|
| BCR-038 | Fly ash from coal pulveri | CRM | | | 0.00480 | | | | | | | 0.00046 | | 5-6g |
| BCR-176R | Fly ash | CRM | (0.00331) | | 0.0054 | (0.0000604) | | (0.4650) | | (0.0836) | | 0.0226 | (0.00477) | 40 g |
| IR ENO 12-1-01 | Coal fly ash | CRM | | 10.8 | 0.1820 | | 0.0291 | 0.0680 | 0.000430 | | 3.42 | | 0.00987 | 50 g |
| IR EOP 12-1-02 | Coal fly ash | CRM | | 16.1 | 0.00739 | | | 0.1090 | | | 1.49 | | 0.0322 | 50 g |
| IR ECH 12-1-03 | Coal fly ash | CRM | | 14.7 | 0.00505 | | | 0.0731 | | | 1.86 | | 0.0183 | 50 g |

| 编号 | Co | Cr | Cs | Cu | Eu | Fe | Hf | Hg | K | La | Mg |
|----|----|----|----|----|----|----|----|----|---|----|----|
|----|----|----|----|----|----|----|----|----|---|----|----|

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| BCR-038 | 0.00538 | (0.0178) | | 0.0176 | | 3.3800 | | | | | |
| BCR-176R | 0.00267 | 0.0810 | (0.000827) | 0.1050 | (0.0000868) | 1.3100 | (0.000485) | (0.000160) | | (0.00302) | |
| IR ENO 12-1-01 | 0.00257 | 0.00968 | 0.0118 | 0.00587 | | 7.49 | | 7.06 ng/g | 1.75 | | 1.17 |
| IR EOP 12-1-02 | 0.00524 | 0.0189 | 0.00201 | 0.0231 | 0.000499 | 5.17 | | | 0.651 | 0.0164 | 0.581 |
| IR ECH 12-1-03 | 0.00486 | 0.0191 | | 0.0155 | | 5.59 | | | 1.36 | 0.00844 | 0.788 |

| 编号 | Mn | Na | Ni | Pb | Rb | Sb | Sc | Se | Si | Sr | Ta |
|----------------|----------|----------|----------|---------|----------|----------|------------|---------|------|--------|------------|
| BCR-038 | 0.0479 | 3.740 | (0.0194) | 0.0262 | | | | | | | |
| BCR-176R | (0.0730) | (3.4800) | 0.0117 | 0.5000 | (0.0102) | 0.0850 | (0.000291) | 0.00183 | | | (0.000202) |
| IR ENO 12-1-01 | 0.0630 | 0.551 | 0.00709 | 0.00431 | 0.0150 | 0.000528 | 0.00204 | | 25.7 | 0.0275 | |
| IR EOP 12-1-02 | 0.0441 | 0.361 | 0.0105 | 0.00408 | 0.00690 | | | | 22.9 | 0.0583 | |
| IR ECH 12-1-03 | 0.0383 | 0.303 | 0.0117 | 0.00669 | 0.0141 | | 0.00292 | | 25.0 | 0.0407 | |

| 编号 | Th | Ti | Tl | V | W | Yb | Zn |
|----------------|------------|-------|----------|----------|-----------|----------|--------|
| BCR-038 | | | | | | | 0.0581 |
| BCR-176R | (0.000528) | | 0.000132 | (0.0035) | (0.00283) | | 1.6800 |
| IR ENO 12-1-01 | | 0.447 | | 0.0195 | | 0.000349 | 0.0157 |
| IR EOP 12-1-02 | 0.00239 | 3.61 | | 0.0558 | | | 0.0221 |
| IR ECH 12-1-03 | 0.00221 | 1.36 | | 0.0381 | | | 0.0248 |

Coal ash continued 煤灰

Mildly reducing atmosphere

| 编号 | 描述 | 种类 | Deformation temp. (°C) | Softening temp. (°C) | Hemisphere temp. (°C) | Fluid temp. (°C) | 规格 |
|-------------|-------------------------|-----|------------------------|----------------------|-----------------------|------------------|----|
| NCS FS28001 | Fusability for coal ash | CRM | 1161 | 1190 | 1198 | 1204 | 5g |
| NCS FS28002 | Fusability for coal ash | CRM | 1217 | 1340 | 1357 | 1369 | 5g |
| NCS FS28003 | Fusability for coal ash | CRM | 1285 | 1314 | 1322 | 1340 | 5g |

Oxidizing atmosphere

| 编号 | 描述 | 种类 | Deformation temp. (°C) | Softening temp. (°C) | Hemisphere temp. (°C) | Fluid temp. (°C) | 规格 |
|-------------|-------------------------|-----|------------------------|----------------------|-----------------------|------------------|----|
| NCS FS28001 | Fusability for coal ash | CRM | 1211 | 1230 | 1239 | 1252 | 5g |
| NCS FS28002 | Fusability for coal ash | CRM | 1356 | 1408 | 1420 | 1445 | 5g |
| NCS FS28003 | Fusability for coal ash | CRM | 1314 | 1345 | 1360 | 1381 | 5g |

Coke 焦炭

| 编号 | 描述 | 种类 | Ash % | Ca | Fe | Mn | Na | Ni | S | Si | V | % Vol. | Zn | 规格 |
|--------------|----------------------|-----|-------|--------|-------|--------|-------|-------|------|-------|--------|--------|--------|------|
| ALCAN-GPC-DF | Green petroleum coke | CRM | | 0.028 | 0.028 | 0.0003 | | 0.050 | 1.58 | 0.022 | 0.040 | | 0.006 | 100g |
| ALCAN-DG | Green petroleum coke | CRM | | 0.0130 | 0.023 | 0.0002 | | 0.038 | 1.59 | 0.014 | 0.035 | | 0.0011 | 100g |
| ALCAN-DH | Green petroleum coke | CRM | | 0.004 | 0.019 | 0.0001 | | 0.021 | 2.40 | 0.006 | 0.034 | | 0.0008 | 100g |
| ALCAN-DI | Green petroleum coke | CRM | | 0.007 | 0.017 | 0.0001 | | 0.004 | 1.02 | 0.013 | 0.004 | | 0.0008 | 100g |
| ALCAN-DJ | Green petroleum coke | CRM | | 0.015 | 0.027 | 0.0005 | | 0.003 | 0.64 | 0.12 | 0.0030 | | 0.0004 | 100g |
| ALCAN-DL | Green petroleum coke | CRM | 0.20 | 0.011 | 0.010 | 0.0003 | 0.021 | 0.012 | 0.78 | 0.018 | 0.006 | 10.4 | 0.0003 | 100g |

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| 编号 | 描述 | 种类 | Ash % | Al | Ba | Ca | Cl | Cr | Cryst. | Cu | Density | Fe | K | 规格 |
|--------------|-------------------------|-----|-------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|------|
| ALCAN-PCC-02 | Calcined petroleum coke | CRM | | | | | | | 0.86 | | 0.860 | | | 100g |
| ALCAN-PCC-04 | Calcined petroleum coke | CRM | | | | | | | 0.86 | | 0.860 | | | 100g |
| ALCAN-PCC-07 | Calcined petroleum coke | CRM | 1.235 | 0.0060 | 0.0003 | 0.0495 | 0.0013 | 0.0012 | 27.51 | 0.0004 | 1.380 | 0.606 | 0.0198 | 100g |
| ALCAN-PCC-08 | Calcined petroleum coke | CRM | 2.237 | 0.00651 | 0.0009 | 0.0925 | 0.0014 | 0.0024 | 30.74 | 0.0005 | 1.386 | 1.23 | 0.0393 | 100g |
| ALCAN-PCC-09 | Calcined petroleum coke | CRM | 0.550 | 0.0211 | 0.0008 | 0.0641 | 0.0037 | 0.0003 | 23.90 | 0.0004 | 1.382 | 0.0408 | 0.0015 | 100g |
| ALCAN-PCC-10 | Calcined petroleum coke | CRM | 0.375 | 0.0177 | 0.0008 | 0.0093 | 0.0031 | 0.0005 | 23.29 | 0.0002 | 1.32 | 0.0494 | 0.0018 | 100g |

| 编号 | Mg | Mn | Na | Ni | P | Pb | S | Si | Ti | V | Zn |
|--------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| ALCAN-PCC-02 | | | | | | | | | | | |
| ALCAN-PCC-04 | | | | | | | | | | | |
| ALCAN-PCC-07 | 0.0035 | 0.0071 | 0.0111 | 0.153 | 0.0007 | 0.0002 | 1.93 | 0.0165 | 0.0016 | 0.0271 | 0.0003 |
| ALCAN-PCC-08 | 0.0055 | 0.0138 | 0.0197 | 0.0011 | 0.0015 | 0.0002 | 0.029 | 0.0248 | 0.0007 | 0.0003 | 0.0003 |
| ALCAN-PCC-09 | 0.0233 | 0.0008 | 0.0047 | 0.0135 | 0.0022 | 0.0004 | 5.97 | 0.0299 | 0.0007 | 0.0388 | 0.0022 |
| ALCAN-PCC-10 | 0.0024 | 0.0006 | 0.0073 | 0.0201 | 0.0007 | 0.0002 | 3.29 | 0.0440 | 0.0012 | 0.0428 | 0.0005 |

| 编号 | 描述 | 种类 | Ash % | Ca | Density | Fe | Ni | S | Si | V | 规格 |
|--------------|------------|-----|-------|-------|---------|------|-------|------|-----|-------|------|
| ALCAN-PCC-02 | Anthracite | CRM | 7.8 | 0.083 | 1.76 | 0.32 | 0.004 | 0.57 | 1.8 | 0.004 | 100g |
| ALCAN-PCC-04 | Anthracite | CRM | 8.6 | 0.17 | 1.85 | 0.32 | 0.003 | 0.40 | 1.9 | 0.004 | 100g |

Coke continued 焦炭

| 编号 | 描述 | 种类 | Ash % | Ca | Fe | H | Ni | S | Si | V | 规格 |
|----------|--------------------|-----|-------|-------|------|------|-------|------|------|--------|------|
| ALCAN-AS | Metallurgical coke | CRM | | | 0.45 | | | 0.84 | 2.3 | | 100g |
| ALCAN-AZ | Metallurgical coke | CRM | | 0.099 | 0.77 | | | 1.05 | 2.4 | 0.005 | 100g |
| ALCAN-BY | Metallurgical coke | CRM | 10.0 | 0.085 | 0.60 | | 0.002 | 0.96 | 2.4 | 0.004 | 100g |
| ALCAN-CA | Metallurgical coke | CRM | 10.1 | 0.066 | 0.40 | 0.50 | | 0.65 | 2.64 | <0.001 | 100g |
| ALCAN-CB | Metallurgical coke | CRM | 7.5 | | 0.36 | | 0.011 | 0.54 | 1.62 | 0.003 | 100g |

| 编号 | 描述 | 种类 | S | 规格 |
|---------|-------------------------|-----|-------|-----|
| AR-2712 | Calcined petroleum coke | CRM | 0.43 | 50g |
| AR-723 | Metallurgical coke | CRM | 0.47 | 50g |
| AR-2713 | Green petroleum coke | CRM | 0.54 | 50g |
| AR-719 | Metallurgical coke | CRM | 0.61 | 50g |
| AR-2714 | Green petroleum coke | CRM | 0.906 | 50g |
| AR-2715 | Green petroleum coke | CRM | 1.20 | 50g |
| AR-720 | Metallurgical coke | CRM | 1.21 | 50g |
| AR-2717 | Green petroleum coke | CRM | 2.21 | 50g |
| AR-2716 | Green petroleum coke | CRM | 2.47 | 50g |
| AR-2719 | Calcined petroleum coke | CRM | 2.58 | 50g |
| AR-2720 | Green petroleum coke | CRM | 3.99 | 50g |

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|---------|----------------------|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|
| AR-2723 | Green petroleum coke | CRM | 5.16 | | | | | | | | | | | | | | 50g |
| AR-2721 | Green petroleum coke | CRM | 5.56 | | | | | | | | | | | | | | 50g |

| 编号 | 描述 | 种类 | Al2O3 | Ash % | BaO | C | C (fx) | CaO | Cl | FeO | H | Heat(BTU) | K2O | MgO | MnO | 规格 |
|---------|--------------------|-----|-------|-------|------|-------|--------|------|------|-------|--------|-----------|------|------|------|-----|
| AR-2771 | Metallurgical coke | CRM | 26.63 | 8.04 | 0.17 | 90.33 | 91.11 | 3.00 | 0.05 | 15.97 | <0.5 | 13123 | 1.74 | 1.19 | 0.10 | 50g |
| AR-2772 | Metallurgical coke | CRM | 28.51 | 9.57 | 0.16 | 87.26 | 90.01 | 1.83 | 0.02 | 11.74 | (0.29) | 12878 | 1.91 | 0.90 | 0.10 | 50g |

| 编号 | N | Na2O | O | Org.matter | P2O5 | Pyritic | S | SiO2 | SO2 | SO3 | SrO | TiO2 | % Vol. |
|---------|------|------|------|------------|------|---------|------|-------|-------|------|------|------|--------|
| AR-2771 | 1.17 | 0.65 | <0.5 | 0.58 | 0.25 | 0.02 | 0.6 | 46.59 | <0.01 | 1.99 | 0.11 | 1.42 | 0.85 |
| AR-2772 | 1.13 | 0.49 | 0.99 | <0.01 | 0.34 | <0.01 | 0.76 | 51.60 | 0.76 | 0.84 | 0.11 | 1.54 | 0.42 |

Ash fusion temperature for the materials above (Temperature in Degrees F)

| | AR-2771 | AR-2772 |
|----------------------------|---------|---------|
| Initial Reducing | 2275 | 2492 |
| Initial Oxidizing | 2575 | 2661 |
| Softening Reducing (H= W) | 2340 | 2611 |
| Softening Oxidizing (H= W) | 2632 | 2700 |
| Softening Reducing (H=½W) | 2380 | 2660 |
| Softening Oxidizing (H=½W) | 2670 | 2700 |
| Fluid - Reducing | 2470 | 2695 |
| Fluid - Oxidizing | 2698 | 2700 |

Coke continued 焦炭

| 编号 | 描述 | 种类 | Al2O3 | Ash % | As | CaO | Cl | Cr | Cu | Fe2O3 | Heat (J/g) | K2O | MgO | 规格 |
|-------------|------|-----|-------|-------|---------|------|-------|--------|--------|-------|------------|-------|-------|-----|
| NCS FC28018 | Coke | CRM | 4.30 | 12.35 | 0.00008 | 0.56 | 0.046 | 0.0018 | 0.0024 | 0.64 | 28910 | 0.062 | 0.14 | 50g |
| NCS FC28019 | Coke | CRM | 4.17 | 11.64 | 0.0001 | 0.45 | 0.024 | 0.0015 | 0.0018 | 0.55 | 29080 | 0.058 | 0.094 | 50g |
| NCS FC28020 | Coke | CRM | 4.95 | 14.42 | 0.00014 | 0.52 | 0.020 | 0.0022 | 0.0027 | 1.22 | 28260 | 0.079 | 0.15 | 50g |
| NCS FC28021 | Coke | CRM | 4.61 | 12.29 | 0.0001 | 0.38 | 0.022 | 0.0013 | 0.0014 | 0.40 | 29040 | 0.062 | 0.046 | 50g |
| NCS FC28022 | Coke | CRM | 3.98 | 11.90 | 0.0002 | 0.55 | 0.049 | 0.0022 | 0.002 | 0.63 | 29100 | 0.069 | 0.16 | 50g |
| NCS FC28023 | Coke | CRM | 5.28 | 16.20 | 0.00024 | 0.57 | 0.022 | 0.0021 | 0.0018 | 0.96 | 27560 | 0.11 | 0.097 | 50g |

| 编号 | MnO | Na2O | Ni | P | Pb | S | SiO2 | SrO | TiO2 | V | % Vol. |
|-------------|--------|-------|--------|-------|--------|------|------|--------|------|--------|--------|
| NCS FC28018 | 0.0071 | 0.13 | 0.0014 | 0.02 | 0.0007 | 0.50 | 5.70 | 0.013 | 0.18 | 0.0034 | 1.35 |
| NCS FC28019 | 0.0049 | 0.08 | 0.001 | 0.027 | 0.0009 | 0.67 | 5.52 | 0.01 | 0.18 | 0.0027 | 1.31 |
| NCS FC28020 | 0.0052 | 0.05 | 0.0008 | 0.037 | 0.0011 | 0.76 | 6.52 | 0.017 | 0.22 | 0.0038 | 1.78 |
| NCS FC28021 | 0.0028 | 0.038 | 0.0007 | 0.031 | 0.0009 | 0.80 | 6.08 | 0.01 | 0.19 | 0.0021 | 1.22 |
| NCS FC28022 | 0.013 | 0.084 | 0.0008 | 0.018 | 0.0008 | 0.81 | 5.63 | 0.011 | 0.18 | 0.0032 | 1.68 |
| NCS FC28023 | 0.0044 | 0.067 | 0.001 | 0.018 | 0.0008 | 1.44 | 8.17 | 0.0084 | 0.20 | 0.0037 | 1.80 |

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| 编号 | 描述 | 种类 | Al | Ca | Cd | Co | Cr | Cu | Fe | K | Mg | Mn | Na | 规格 |
|-------------|------|-----|------|------|---------|--------|--------|--------|------|-------|-------|-------|-------|-----|
| NCS FC28129 | Coke | CRM | 2.34 | 0.60 | | 0.0007 | 0.0015 | 0.0021 | 0.75 | 0.093 | 0.11 | 0.021 | 0.13 | 50g |
| NCS FC28130 | Coke | CRM | 1.96 | 0.52 | <0.0001 | 0.0006 | 0.0012 | 0.0017 | 0.63 | 0.061 | 0.11 | 0.015 | 0.063 | 50g |
| NCS FC28131 | Coke | CRM | 2.72 | 0.29 | <0.0001 | 0.0007 | 0.0011 | 0.0016 | 0.51 | 0.094 | 0.046 | 0.008 | 0.050 | 50g |

| 编号 | Ni | P | Pb | Si | Ti | V | Zn |
|-------------|--------|-------|--------|------|-------|--------|--------|
| NCS FC28129 | 0.0015 | 0.020 | 0.0014 | 2.97 | 0.12 | 0.0041 | 0.0011 |
| NCS FC28130 | 0.0012 | 0.022 | | 2.35 | 0.099 | 0.0034 | 0.0011 |
| NCS FC28131 | 0.0013 | 0.015 | | 3.22 | 0.12 | 0.0027 | 0.0018 |

| 编号 | 描述 | 种类 | Ash % | S | % Vol. | 规格 |
|-------------|------|-----|-------|------|--------|-----|
| NCS FC59001 | Coke | CRM | 7.22 | 0.63 | 1.39 | 60g |
| NCS FC59002 | Coke | CRM | 12.62 | 0.47 | 1.5 | 60g |
| NCS FC28014 | Coke | CRM | 27.15 | 1.55 | 3.47 | 75g |
| NCS FC28015 | Coke | CRM | 7.04 | 1.69 | 2.11 | 75g |

| 编号 | 描述 | 种类 | Ash % | Heat (J/g) | P | S | % Vol. | 规格 |
|-------------|------|-----|-------|------------|-------|------|--------|-----|
| NCS FC28024 | Coke | CRM | 15.43 | 28170 | 0.041 | 0.41 | 1.98 | 50g |
| NCS FC28025 | Coke | CRM | 11.50 | 29320 | 0.021 | 1.05 | 1.45 | 50g |
| NCS FC28026 | Coke | CRM | 12.18 | 28950 | 0.031 | 0.79 | 1.36 | 50g |
| NCS FC28027 | Coke | CRM | 14.83 | 28120 | 0.026 | 0.89 | 1.65 | 50g |
| NCS FC28132 | Coke | CRM | 11.39 | 30230 | 0.016 | 0.50 | 2.80 | 50g |
| NCS FC28133 | Coke | CRM | 12.30 | 29180 | 0.024 | 1.00 | 1.79 | 50g |
| NCS FC28134 | Coke | CRM | 12.70 | 29040 | 0.024 | 1.19 | 1.95 | 50g |

| 编号 | 描述 | 种类 | Ash % | Heat (J/g) | S | % Vol. | 规格 |
|--------------|------|-----|-------|------------|------|--------|-----|
| NCS FC28117A | Coke | CRM | 15.15 | 28190 | 0.60 | 1.62 | 50g |
| NCS FC28118 | Coke | CRM | 12.08 | 29250 | 0.87 | 1.66 | 50g |
| NCS FC28119 | Coke | CRM | 14.43 | 28300 | 0.81 | 1.34 | 50g |
| NCS FC28120 | Coke | CRM | 14.05 | 28550 | 0.68 | 1.43 | 50g |
| NCS FC28121 | Coke | CRM | 13.29 | 28760 | 0.75 | 1.14 | 50g |

Coke continued 焦炭

| 编号 | 描述 | 种类 | Ash % | C | C (fx) | Ca | Co | Cu | Heat(BTU) | N | Ni | S | Si | V | % Vol. | 规格 |
|---------|-------------------------|-----|--------|-------|---------|--------|--------|--------|-----------|------|--------|------|----------|----------|--------|-----|
| AR-742B | Green petroleum coke | CRM | 0.09 | 93.81 | | 0.0037 | 0.0129 | 3.76 | | 1.27 | 0.0068 | 0.89 | 0.0081 | 0.0022 | 9.67 | 50g |
| AR-744 | Calcined petroleum coke | CRM | 0.33 | 95.58 | 99.23 | 0.0079 | 0.0917 | (0.23) | 13.989 | 0.92 | 0.0164 | 2.53 | 0.0153 | 0.0239 | 0.45 | 50g |
| AR-745 | Green petroleum coke | CRM | (0.07) | 95.60 | (92.85) | 0.0035 | 0.0132 | 1.90 | 14.934 | 0.97 | 0.0094 | 0.55 | 0.0055 | 0.0051 | 7.08 | 50g |
| AR-747 | Green petroleum coke | CRM | 0.49 | 89.70 | 87.64 | 0.0251 | 0.0185 | 3.65 | 15.443 | 1.41 | 0.0163 | 4.03 | (0.0284) | (0.1165) | 11.87 | 50g |
| AR-756 | Green petroleum coke | CRM | 0.92 | 89.60 | | 0.0105 | 0.0317 | 1.66 | 14.494 | 1.90 | 0.029 | 5.27 | 0.0386 | 0.1675 | 6.52 | 50g |
| AR-732 | Metallurgical coke | CRM | 7.84 | | 91.53 | | | | 13168 | | | 0.59 | | | 0.63 | 50g |
| AR-733 | Metallurgical coke | CRM | 8.04 | | 96.37 | | | | 13123 | | | 0.60 | | | 0.85 | 50g |
| AR-734 | Metallurgical coke | CRM | 9.57 | | 90.01 | | | | 12878 | | | 0.76 | | | 0.42 | 50g |

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| 编号 | 描述 | 种类 | Al | Ash % | C | Ca | Co | Fe | H | Heat (J/g) | 规格 |
|-----------|-------------------------|-----|---------|--------|---------|---------|------------|---------|--------|------------|-----|
| NIST-2718 | Green petroleum coke | CRM | 0.00165 | (0.18) | (88.99) | 0.0174 | (0.000579) | 0.0290 | (3.47) | (35760) | 50g |
| NIST-2719 | Calcined petroleum coke | CRM | 0.00589 | (0.12) | (97.06) | 0.00577 | (0.00186) | 0.02016 | (0.16) | (32900) | 50g |

| 编号 | N | Na | Ni | S | Si | V | % Vol. |
|-----------|--------|-----------|---------|--------|------------|---------|--------|
| NIST-2718 | (1.23) | (0.00886) | 0.01391 | 4.7030 | (0.006300) | 0.0302 | (10.6) |
| NIST-2719 | (1.17) | (0.00151) | 0.0204 | 0.8877 | (0.01380) | 0.00586 | (0.54) |

| 编号 | 描述 | 种类 | Ash % | C | H | N | S | % Vol. | 规格 |
|-----------|--------------|-----|--------|---------|--------|--------|--------|--------|-----|
| NIST-2775 | Foundry coke | CRM | (5.77) | (91.34) | (0.41) | (1.16) | 0.5816 | (1.31) | 50g |
| NIST-2776 | Foundry coke | CRM | (8.06) | (89.15) | (0.26) | (1.21) | 0.825 | (0.98) | 50g |

| 编号 | 描述 | 种类 | Ash % | C | Ca | Fe | H | Heat(BTU) | Heat (J/g) | H2O | K2O | N | 规格 |
|----------------|------|-----|-------|-------|-------|--------|------|-----------|------------|-------|-------|------|------|
| ASCRM014-99 | Coke | CRM | 12.23 | 85.65 | | | 0.32 | | 28260 | | | 0.82 | 250g |
| IARM HP-40700A | Coke | CRM | 0.34 | | 0.003 | 0.0074 | | (15000) | (34500) | (0.9) | | | 50g |
| VS-P18 | Coke | CRM | 12.45 | | | | | | | | 0.128 | | 70g |

| 编号 | Na | Na2O | Ni | P | S | Si | T.S.G. | V | % Vol. |
|----------------|-------|-------|-------|-------|-------|-------|--------|------|--------|
| ASCRM014-99 | | | | 0.09 | 0.314 | | | 1.87 | 1.04 |
| IARM HP-40700A | 0.005 | | 0.031 | | 6.7 | 0.004 | | 0.15 | 10.7 |
| VS-P18 | | 0.051 | | 0.037 | 1.34 | | | | |

Coke ash 焦炭

| 编号 | 描述 | 种类 | Al2O3 | C (tot) | CaO | CO2 | Co3O4 | Cr2O3 | CuO | Fe | Fe2O3 | H2O (900°C) | 规格 |
|-------------|-------------|-----|--------|---------|-------|-------|-------|-------|-------|------|-------|-------------|------|
| DH-SX37-11 | Coke ash | RM | 13.79 | 0.039 | 11.60 | 0.045 | 0.007 | 0.036 | 0.009 | 7.79 | | 0.52 | 100g |
| NCS FC28137 | Ash of coke | CRM | 35.62 | | 2.82 | | | | | | 5.02 | | 5g |
| NCS FC28135 | Ash of coke | CRM | 29.95 | | 5.67 | | | | | | 7.23 | | 5g |
| NCS FC28136 | Ash of coke | CRM | 30.666 | | 6 | | | | | | 7.51 | | 5g |

| 编号 | K2O | MgO | MnO | Na2O | NiO | P2O5 | SiO2 | SO3 | SrO | TiO2 | V2O5 | ZnO | ZrO2 |
|-------------|------|------|-------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| DH-SX37-11 | 3.29 | 8.69 | 0.189 | 3.08 | 0.030 | 0.607 | 43.5 | 0.091 | 0.103 | 2.78 | 0.058 | 0.010 | 0.041 |
| NCS FC28137 | 1.57 | 0.53 | 0.07 | 0.94 | | 0.24 | 47.81 | | | 1.41 | 0.033 | | |
| NCS FC28135 | 1.51 | 1.25 | 0.18 | 2.36 | | 0.31 | 42.87 | | | 1.44 | 0.049 | | |
| NCS FC28136 | 1.22 | 1.5 | 0.16 | 1.36 | | 0.41 | 41.61 | | | 1.41 | 0.05 | | |

Pitch 沥青

| 编号 | 描述 | 种类 | C | Ca | Fe | H | Mn | Na | Ni | P | Pb | S | 规格 |
|----------------|-------|-----|---|--------|-------|---|--------|--------|--------|--------|--------|------|------|
| ALCAN-PITCH-04 | Pitch | CRM | | 0.0076 | 0.015 | | 0.0009 | 0.011 | 0.0003 | 0.0066 | 0.036 | 1.05 | 100g |
| ALCAN-PITCH-05 | Pitch | CRM | | 0.0066 | 0.059 | | 0.0004 | 0.0020 | 0.0004 | 0.0030 | 0.027 | 0.54 | 100g |
| ALCAN-PITCH-06 | Pitch | CRM | | 0.0042 | 0.027 | | 0.0003 | 0.013 | 0.0003 | 0.0003 | 0.0081 | 0.50 | 100g |

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|----------------|-------|-----|------|--------|-------|-----|--------|-------|--------|--------|-------|------|------|
| ALCAN-PITCH-07 | Pitch | CRM | | 0.0082 | 0.032 | | 0.0010 | 0.011 | 0.0004 | 0.0018 | 0.051 | 0.57 | 100g |
| ALCAN-PITCH-08 | Pitch | CRM | 93.5 | | | 4.1 | | | | | | 0.55 | 100g |

| 编号 | Si | Ti | Zn | V |
|----------------|--------|---------|--------|---------|
| ALCAN-PITCH-04 | 0.075 | 0.0003 | 0.047 | 0.0001 |
| ALCAN-PITCH-05 | 0.154 | 0.0025 | 0.016 | 0.00020 |
| ALCAN-PITCH-06 | 0.082 | 0.0015 | 0.0074 | 0.00010 |
| ALCAN-PITCH-07 | 0.0080 | 0.00030 | 0.074 | 0.00003 |
| ALCAN-PITCH-08 | | | | |

| 编号 | 描述 | 种类 | Asn (700~ C) | Asn (900~ C) | Coking value | Quinoline insoluble | Toluene insoluble | Density (g/ml) | Softening point (°C) | EVT1 (°C) | EVI100 (°C) | 规格 |
|----------------|-------|-----|--------------|--------------|--------------|---------------------|-------------------|----------------|----------------------|-----------|-------------|------|
| ALCAN-PITCH-02 | Pitch | CRM | 0.37 | | | | | | | | | 100g |
| ALCAN-PITCH-08 | Pitch | CRM | 0.17 | 1.16 | 60.9 | 14.4 | 28.5 | 1.34 | 111.6 | 167 | 121 | 100g |

Continuous casting powder

| 编号 | 描述 | 种类 | Al2O3 | BaO | Ca | F | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | 规格 |
|------------|---------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| DH-SX28-01 | Casting powder | RM | 3.58 | 0.019 | 23.08 | 0.047 | 0.467 | 1.092 | 4.80 | 0.033 | 1.33 | 0.044 | 100g |
| DH-SX28-02 | Casting powder | RM | 3.09 | | 25.15 | 0.074 | 0.488 | 0.830 | 0.981 | 0.030 | 1.097 | 0.060 | 100g |
| DH-SX30-05 | Continuous casting powder | RM | 5.14 | | 27.35 | 6.23 | 0.233 | 0.376 | 0.39 | 0.007 | 7.93 | 0.091 | 100g |
| DH-SX30-10 | Continuous casting powder | RM | 5.05 | | 27.06 | | 2.63 | 0.155 | 4.13 | 0.059 | 5.479 | 0.454 | 100g |
| DH-SX30-11 | Continuous casting powder | RM | 4.40 | | 26.58 | 5.59 | 2.122 | 0.606 | 5.85 | 0.033 | 2.23 | 0.106 | 100g |
| DH-SX30-13 | Continuous casting powder | RM | 5.95 | 0.121 | 30.73 | 5.72 | 0.437 | 0.288 | 1.93 | 0.045 | 6.43 | 0.047 | 100g |

| 编号 | S | SiO2 | SrO | TiO2 | Y | ZnO |
|------------|-------|-------|-------|-------|-------|-------|
| DH-SX28-01 | 0.245 | 55.0 | 0.019 | 0.069 | | |
| DH-SX28-02 | 0.132 | 57.50 | 0.020 | 0.055 | | 0.004 |
| DH-SX30-05 | 0.019 | 43.10 | | 0.086 | | |
| DH-SX30-10 | 0.131 | 38.56 | | 0.055 | | |
| DH-SX30-11 | 0.058 | 43.23 | 0.029 | 0.178 | 0.028 | |
| DH-SX30-13 | 0.077 | 37.70 | 0.034 | 0.064 | | |

| 编号 | 描述 | 种类 | Al2O3 | C | C (free) | CO2 | Ca | F | Fe | K | LOI | MgO | 规格 |
|------------|---------------------------|----|-------|-------|----------|--------|-------|------|---------|---------|--------|--------|------|
| IRSID-2701 | Continuous casting powder | RM | 6.10 | 3.37 | (1.78) | (5.59) | 22.90 | 7.58 | (0.145) | 0.159 | (2.08) | 2.19 | 100g |
| IRSID-2702 | Continuous casting powder | RM | 12.60 | 16.54 | 15.80 | (2.53) | 17.80 | 6.08 | 1.260 | (0.750) | (1.26) | (1.47) | 100g |

| 编号 | Mn | Na | P | S | SiO2 | TiO2 |
|------------|-------|------|---------|---------|-------|---------|
| IRSID-2701 | | 9.42 | (0.014) | (0.055) | 32.70 | (0.048) |
| IRSID-2702 | 0.071 | 3.61 | (0.180) | (0.490) | 28.70 | 0.564 |

Dust and fly ash 粉尘粉煤灰

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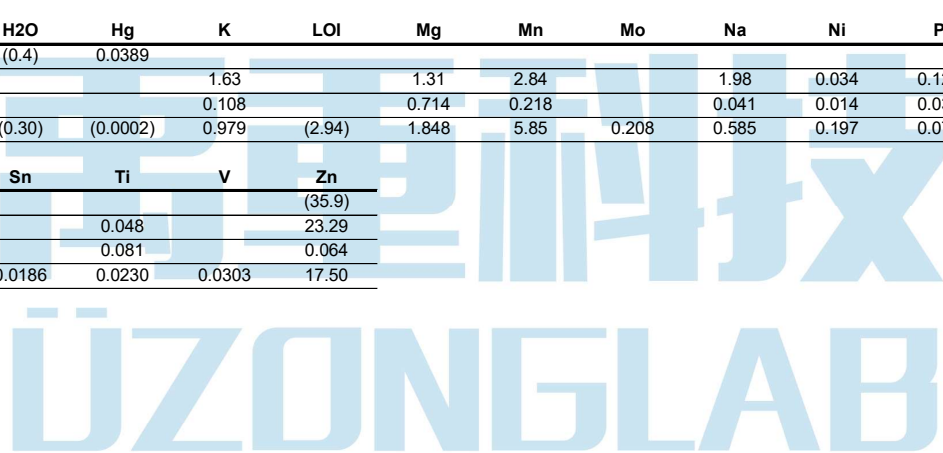
| 编号 | 描述 | 种类 | Ag | Al2O3 | As | Ba | CO2 | CaO | Cd | Co | Cr | Cu | Fe2O3 | K2O | MgO | 规格 |
|------------|---------------------------|-----|----------|-------|----------|----------|------|-------|----------|--------|--------|--------|-------|------|------|-----|
| BL 12-1-10 | Steeldust, sinterprocess | CRM | (0.0001) | 1.64 | (0.0008) | (0.0150) | 5.39 | 12.80 | 0.0005 | 0.0031 | 0.0189 | 0.0076 | 60.95 | 0.28 | 7.59 | 30g |
| BL 12-1-11 | Steeldust, smelting proci | CRM | | 4.00 | (0.0008) | 0.0160 | 8.60 | 6.77 | (0.0003) | 0.0008 | 0.3910 | 0.0027 | 3.18 | 1.23 | 2.22 | 30g |

| 编号 | MnO | Mo | Na2O | Ni | Pb | SO3 | Sb | SiO2 | Sn | Sr | TiO2 | V | Zn |
|------------|------|----------|------|--------|----------|------|----------|-------|----------|----------|-------|----------|--------|
| BL 12-1-10 | 0.16 | (0.0004) | 0.15 | 0.0047 | 0.0056 | 2.22 | (0.0003) | 9.80 | (0.0040) | (0.0050) | 0.075 | (0.0033) | 0.0086 |
| BL 12-1-11 | 0.03 | (0.0010) | 4.11 | 0.0036 | (0.0025) | 1.15 | | 65.58 | (0.0043) | (0.0058) | 0.23 | 0.0056 | 0.0050 |

| 编号 | 描述 | 种类 | Ag | Al | As | Bi | C | Ca | Cd | Cl | Co | Cr | Cu | F | Fe | 规格 |
|--------------|-----------------------|-----|--------|-------|--------|--------|--------|------|--------|-------|--------|-------|--------|-------|--------|------|
| CAN-PD-1 | Non-Ferrous Dust | CRM | | | 0.76 | | | | (0.28) | | | | (7.03) | | (12.2) | 200g |
| ECRM-F 876-1 | Electric furnace dust | CRM | | 0.034 | 0.023 | | | 3.43 | | | | 0.17 | 0.42 | | 24.85 | 100g |
| ECRM-F 880-1 | Blast furnace dust | CRM | | 1.28 | | | | 3.15 | | 0.085 | | 0.027 | 0.005 | 0.034 | 31.0 | 100g |
| ECRM-B 884-1 | Blast furnace dust | CRM | 0.0028 | 0.379 | 0.0054 | 0.0280 | (0.82) | 5.22 | 0.0045 | 0.991 | 0.0046 | 1.86 | 0.1569 | 0.411 | 31.67 | 100g |

| 编号 | H2O | Hg | K | LOI | Mg | Mn | Mo | Na | Ni | P | Pb | S | Si |
|--------------|--------|----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| CAN-PD-1 | (0.4) | 0.0389 | | | | | | | | | 2.75 | | (3.05) |
| ECRM-F 876-1 | | | 1.63 | | 1.31 | 2.84 | | 1.98 | 0.034 | 0.128 | | 0.87 | 1.72 |
| ECRM-F 880-1 | | | 0.108 | | 0.714 | 0.218 | | 0.041 | 0.014 | 0.038 | 0.017 | 0.425 | 3.34 |
| ECRM-B 884-1 | (0.30) | (0.0002) | 0.979 | (2.94) | 1.848 | 5.85 | 0.208 | 0.585 | 0.197 | 0.079 | 0.442 | (0.49) | 2.100 |

| 编号 | Sn | Ti | V | Zn |
|--------------|--------|--------|--------|--------|
| CAN-PD-1 | | | | (35.9) |
| ECRM-F 876-1 | | 0.048 | | 23.29 |
| ECRM-F 880-1 | | 0.081 | | 0.064 |
| ECRM-B 884-1 | 0.0186 | 0.0230 | 0.0303 | 17.50 |



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Dust and fly ash continued 粉尘粉煤灰

| 编号 | 描述 | 种类 | Al ₂ O ₃ | C | C (tot) | CO ₂ | CaO | Cd | CdO | Cl | Cr ₂ O ₃ | Cu | CuO | F | Fe | 规格 |
|------------|----------------------|----|--------------------------------|------|---------|-----------------|-------|--------|-------|------|--------------------------------|-------|-------|-------|-------|------|
| DH-SX15-01 | Iron ore sinter dust | RM | 1.23 | 2.78 | | 2.59 | 7.11 | | 0.001 | 1.11 | | | | 0.377 | 52.32 | 20g |
| DH-SX62-03 | Cupola dust | RM | 2.57 | 4.22 | | 1.01 | 1.23 | | | 2.00 | 0.004 | | 0.311 | 0.570 | | 20g |
| DH-SX62-04 | Cupola dust | RM | 1.06 | | 8.08 | 2.02 | 2.54 | 0.0197 | | 3.62 | 0.072 | 0.079 | | 0.247 | 6.29 | 20g |
| DH-SX62-05 | Cupola dust | RM | 1.30 | 6.80 | | 3.84 | 4.91 | | | 2.88 | 0.041 | | 0.163 | 0.096 | | 20g |
| DH-SX62-06 | Cupola dust | RM | 0.220 | | 2.57 | | 0.090 | | | | 0.048 | 2.021 | | | | 100g |
| DH-SX29-01 | Blast furnace dust | RM | 0.961 | | | | 5.28 | | | | 0.038 | | | | 59.37 | 100g |
| DH-SX29-02 | Blast furnace dust | RM | 0.823 | | | | 3.12 | | | | 0.037 | | | | 61.67 | 100g |
| DH-SX29-03 | Blast furnace dust | RM | 0.701 | | | | 2.00 | | | | 0.040 | | 0.006 | | 63.01 | 100g |

| 编号 | FeO | Fe ₂ O ₃ | H ₂ O Loss | K ₂ O | Li | MgO | Mn | Mn ₃ O ₄ | Mo | MoO ₃ | Na ₂ O | Ni | NiO |
|------------|------|--------------------------------|-----------------------|------------------|---------|-------|-------|--------------------------------|--------|------------------|-------------------|--------|-------|
| DH-SX15-01 | 3.24 | 71.20 | 1.04* | 1.59 | | 1.49 | | 0.327 | | | 0.121 | | |
| DH-SX62-03 | | 36.85 | 0.214 | 2.51 | | 3.10 | | | | | 5.12 | | |
| DH-SX62-04 | | | 0.055** | 4.96 | 0.00004 | 1.53 | 0.97 | 4.97 | 0.0510 | | 2.63 | 0.0162 | |
| DH-SX62-05 | | 9.49 | 0.107 | 3.68 | | 1.85 | | | | 0.013 | 2.26 | | |
| DH-SX62-06 | | 0.572 | 1.17 | 0.086 | | 0.020 | 0.04 | | | | 0.085 | 0.297 | |
| DH-SX29-01 | | | | 0.778 | | 1.147 | 0.367 | 0.061 | | | 0.119 | | 0.015 |
| DH-SX29-02 | | | | 0.84 | | 0.678 | 0.341 | | | | 0.138 | | 0.016 |
| DH-SX29-03 | | | | 0.705 | | 0.502 | 0.425 | | | | 0.111 | | 0.012 |

| 编号 | P ₂ O ₅ | PbO | S | SO ₃ | SiO ₂ | SnO ₂ | Sr | TiO ₂ | V ₂ O ₅ | ZnO |
|------------|-------------------------------|-------|-------|-----------------|------------------|------------------|---------|------------------|-------------------------------|-------|
| DH-SX15-01 | 0.104 | 0.103 | | 0.830 | 6.13 | | | 0.107 | | |
| DH-SX62-03 | 0.52 | 1.05 | | 5.29 | 15.65 | | | 0.517 | 0.004 | 12.32 |
| DH-SX62-04 | 0.051 | 3.48 | 1.09 | | 26.94 | | 0.00054 | 0.184 | | 30.65 |
| DH-SX62-05 | 0.147 | 2.43 | | 2.70 | 34.52 | 0.018 | | 0.060 | 0.019 | 21.01 |
| DH-SX62-06 | 0.191 | | 0.305 | | 0.430 | 0.047 | | 0.014 | | 91.1 |
| DH-SX29-01 | 0.153 | 0.006 | 0.488 | | 4.28 | | | 0.068 | 0.020 | 0.267 |
| DH-SX29-02 | 0.165 | 0.017 | 0.577 | 1.44 | 3.28 | | | 0.053 | | 0.271 |
| DH-SX29-03 | 0.158 | 0.018 | 0.392 | | 2.44 | | | 0.058 | 0.020 | 1.19 |

* at 600°C
** at 900°C

| 编号 | 描述 | 种类 | As | Cd | Cr | Hg | Pb | 规格 |
|-----------|-------------|-----|---------|---------|---------|----------|---------|----|
| NIST-2583 | Indoor dust | CRM | 0.00070 | 0.00073 | 0.0080 | 0.000156 | 0.00859 | 8g |
| NIST-2584 | Indoor dust | CRM | 0.00174 | 0.00100 | 0.01350 | 0.000520 | 0.9761 | 8g |

| 编号 | 描述 | 种类 | Al | As | Bi | C | Ca | Cd | Cl | Cr | Cu | F | Fe | Hg | K | 规格 |
|--------------|--------------------|-----|-------|--------|--------|-------|-------|--------|--------|-------|-------|--------|-------|----------|-------|------|
| ECRM-S 882-1 | Industrial Fly Ash | CRM | 0.375 | 0.0054 | 0.0026 | (1.0) | 10.11 | 0.0183 | (2.35) | 0.490 | 0.218 | (0.07) | 22.20 | 0.000075 | 0.960 | 100g |

| 编号 | Mg | Mn | Na | Ni | Pb | S | Sb | Si | Sn | V | ZnO |
|--------------|--------|-----|-------|--------|-------|-------|--------|--------|--------|--------|-------|
| ECRM-S 882-1 | (0.48) | (2) | 0.697 | 0.0263 | 1.324 | (0.5) | 0.0116 | (1.05) | (0.02) | 0.0090 | 28.49 |

| 编号 | 描述 | 种类 | Al | Ca | Cd | Cr | Cu | Fe | Hg | K | Na | Ni | Pb | V | Zn | 规格 |
|----|----|----|----|----|----|----|----|----|----|---|----|----|----|---|----|----|
|----|----|----|----|----|----|----|----|----|----|---|----|----|----|---|----|----|

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|-------|--------------------|-----|-------|------|--------|-------|--------|------|----------|-------|-------|--------|------|--------|------|------|
| JK 43 | Industrial Fly Ash | CRM | (0.2) | (12) | 0.0023 | (8) | (0.2) | (20) | 0.00039 | (0.3) | (0.5) | (2) | 0.21 | (0.02) | 4.96 | 100g |
| JK 44 | Industrial Fly Ash | CRM | (0.2) | (5) | 0.0469 | (0.2) | (0.2) | (27) | 0.00028 | (1.3) | (1) | (0.02) | 2.74 | (0.02) | 27.3 | 25g |
| JK 45 | Industrial Fly Ash | CRM | (0.1) | (7) | 0.0047 | (0.3) | (0.01) | (40) | 0.000025 | (0.4) | (7) | (0.05) | 0.11 | (0.1) | 1.53 | 15g |

Dust and fly ash continued 粉尘粉煤灰

| 编号 | 描述 | 种类 | Al | Al2O3 | As | C | CaO | Co | Cr | Cr2O3 | Cu | CuO | F | Fe | FeO | 规格 |
|-------|-----------------------|-----|--------|-------|---------|-------|------|---------|-------|-------|--------|-------|-------|------|------|------|
| VS-E1 | Arc-furnace fly ash | CRM | | 3.06 | (0.004) | 0.684 | 5.85 | (0.03) | | 20.3 | (0.1) | | (0.7) | 29.7 | (21) | 150g |
| VS-E2 | Converter fly ash | CRM | (0.07) | | (0.002) | 1.383 | 7.97 | (0.003) | (0.1) | | (0.04) | | (0.5) | 56.4 | 6.2 | 100g |
| VS-E3 | Marten fly ash | CRM | | 0.25 | 0.0067 | 0.082 | 0.69 | 0.013 | | 0.203 | | 0.242 | | 52.9 | | 60g |
| VS-E4 | Blast furnace fly ash | CRM | | 2.33 | 0.0018 | 13.2 | 8.8 | | | | | 0.034 | 0.023 | 44.6 | | 150g |
| VS-E5 | Blast furnace fly ash | CRM | | 2.87 | | 13 | 7.9 | 0.013 | | 0.085 | | 0.013 | 0.049 | 44.3 | | 150g |

| 编号 | K | MgO | MnO | Na | Ni | NiO | P | Pb | S | SiO2 | Sn | TiO2 | V |
|-------|-------|------|------|-------|--------|-------|--------|--------|-------|------|-----------|------|--------|
| VS-E1 | (0.1) | 9.3 | 1.56 | (0.1) | | 3.68 | (0.02) | (0.05) | 0.072 | 10.3 | (<0.0005) | 2.79 | (0.04) |
| VS-E2 | (0.2) | 1.64 | 1.41 | (0.1) | (0.03) | | 0.065 | 0.276 | 0.116 | 1.76 | (<0.0005) | | (0.01) |
| VS-E3 | | 1.84 | 0.86 | | | 0.062 | 0.083 | 0.49 | 2.78 | 0.43 | 0.017 | | |
| VS-E4 | | 0.82 | 0.47 | | | | 0.033 | 0.015 | 0.44 | 7.46 | | 0.2 | |
| VS-E5 | | 2.26 | 0.5 | | | 0.022 | 0.041 | 0.26 | 7.17 | | | 1.63 | |

| 编号 | V2O5 | Zn |
|-------|-------|-------|
| VS-E1 | | (0.2) |
| VS-E2 | | 0.59 |
| VS-E3 | | 4.2 |
| VS-E4 | 0.041 | 1.52 |
| VS-E5 | 0.39 | 0.27 |

Incinerated waste 焚烧垃圾

| 编号 | 描述 | 种类 | Be | CO2 | CaO | Cd | Co | Cr | Cu | Fe2O3 | Hg | K2O | MgO | MnO | Na2O | 规格 |
|------------|-------------------|-----|----------|---------|---------|---------|--------|--------|--------|--------|---------|--------|--------|--------|--------|-----|
| BL 12-1-12 | Incinerated Waste | CRM | (0.0008) | (11.05) | (13.68) | (0.006) | 0.0023 | 0.0731 | 0.0375 | (4.44) | 0.00078 | (3.23) | (3.41) | (0.46) | (2.56) | 30g |

| 编号 | Ni | P2O5 | Pb | SO3 | Sb | Se | SiO2 | Sn | Sr | TiO2 | V | Zn |
|------------|--------|--------|----------|--------|----------|--------|---------|----------|----------|--------|----------|-------|
| BL 12-1-12 | 0.0198 | (1.77) | (0.1389) | (2.22) | (0.0067) | 0.0004 | (41.48) | (0.0815) | (0.0233) | (1.14) | (0.0069) | 1.045 |

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Ferrolloys铁合金

Ferroboron硼铁

| 编号 | 描述 | 种类 | Al | B | C | Cr | Cu | Fe | Mn | Ni | P | S | 规格 |
|--------------|------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|------|
| VS-F22 | Ferroboron | CRM | 7.78 | 8.95 | 0.161 | | 3.43 | | | | 0.021 | 0.018 | 100g |
| ECRM-B 587-1 | Ferroboron | CRM | 0.047 | 18.67 | 0.738 | 0.104 | | | 0.272 | | 0.020 | | 100g |
| DH-SX17-03 | Ferroboron | RM | 0.141 | 18.78 | 0.318 | 0.080 | 0.064 | 79.36 | 0.246 | 0.359 | 0.018 | | 50g |
| NCS HC25658 | Ferroboron | CRM | 0.99 | 20.58 | 0.022 | | | | | | 0.017 | 0.0016 | 50g |
| VS-F21 | Ferroboron | CRM | 1.546 | 20.91 | 0.047 | | 0.012 | | | | 0.0119 | | 100g |

| 编号 | Si | Sn | Ti | V | Zn |
|--------------|-------|--------|-------|-------|--------|
| VS-F22 | 7.82 | | | | |
| ECRM-B 587-1 | 0.129 | | 0.039 | 0.004 | |
| DH-SX17-03 | 0.326 | | 0.017 | 0.004 | |
| NCS HC25658 | 1.68 | | | | |
| VS-F21 | 0.73 | 0.0055 | | | 0.0055 |

| 编号 | 描述 | 种类 | Al | B | C | Cr | Cu | Mn | Ni | P | S | Si | Ti | V | 规格 |
|-------------|------------|-----|-------|-------|------|-------|-------|-------|-------|-------|--------|------|-------|--------|-----|
| NCS HC28631 | Ferroboron | CRM | 0.036 | 18.92 | 0.40 | 0.025 | 0.015 | 0.310 | 0.013 | 0.025 | 0.0023 | 0.18 | 0.017 | 0.0090 | 50g |
| NCS HC28632 | Ferroboron | CRM | 0.185 | 19.33 | 0.19 | 0.26 | 0.050 | 0.575 | 0.056 | 0.027 | 0.0020 | 0.65 | 0.030 | 0.010 | 50g |
| NCS HC37610 | Ferroboron | CRM | | 20.99 | 0.41 | | | | | 0.018 | 0.007 | 0.40 | | | 50g |

Ferrochromium铬铁

| Number | Type | 种类 | Al | C | Co | Cr | Fe | Mn | N | Ni | P | S | Si | V | 规格 |
|--------------|----------------------|-----|-----|-------|-------|-------|-------|-------|-------|-------|---------|--------|-------|-------|------|
| ECRM-F 509-1 | Ferrochromium, chips | CRM | | 0.012 | | 72.85 | | | 0.029 | | (0.019) | | 0.230 | | 100g |
| ECRM-B 580-1 | Ferrochromium, chips | CRM | | 0.019 | 0.047 | 72.18 | | | 0.035 | | 0.011 | | 0.306 | 0.083 | 100g |
| VS-F35 | Ferrochromium, chips | CRM | | 0.88 | | 71.3 | 26.74 | | | | | 0.0022 | 0.37 | | 100g |
| IPT-65 | Ferrochromium | CRM | 9.2 | 0.051 | 0.016 | 71.2 | 17.9 | 0.128 | | 0.077 | 0.006 | 0.016 | 0.71 | | 100g |
| NIST-196 | Ferrochromium | CRM | | 0.035 | | 70.83 | | | | | 0.020 | 0.003 | 0.373 | | 100g |
| ECRM-F 507-1 | Ferrochromium | CRM | | 5.40 | | 70.30 | | 0.270 | 0.049 | | 0.017 | | 1.20 | | 100g |

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|-------------|---------------|-----|------|-------|-------|-------|-------|------|--|--|--|--|--|--|--|-----|
| NCS HC93610 | Ferrochromium | CRM | 7.99 | 70.15 | 0.225 | 0.018 | 0.030 | 0.26 | | | | | | | | 50g |
|-------------|---------------|-----|------|-------|-------|-------|-------|------|--|--|--|--|--|--|--|-----|

| 编号 | 描述 | 种类 | Al | C | Cr | Fe | Mn | N | Ni | P | S | Si | Ti | V | 规格 |
|-------------|----------------------|-----|------|--------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|------|
| NCS HC93604 | Ferrochromium | CRM | | 0.038 | 68.13 | | 0.103 | | 0.260 | 0.022 | 0.015 | 0.466 | 0.016 | | 50g |
| VS-F15/2 | Ferrochromium | CRM | 0.30 | 0.080 | 68.1 | | | 1.79 | | 0.036 | 0.0019 | 2.08 | | | 100g |
| VS-F11/3 | Ferrochromium, chips | CRM | | 0.180 | 67.9 | 29.83 | 0.168 | 0.044 | 0.379 | 0.022 | 0.0018 | 1.45 | | 0.103 | 100g |
| NCS HC25635 | Ferrochromium | CRM | | 0.051 | 67.23 | | 0.311 | | 0.30 | 0.028 | (0.003) | 1.01 | | | 50g |
| NM 303 | Ferrochromium | CRM | | 6.43 | 64.95 | | | | | | | 1.77 | | | 100g |
| NCS HC37607 | Ferrochromium | CRM | | 0.086 | 64.32 | | 0.35 | | | 0.034 | 0.005 | 1.39 | | | 40g |
| NCS HC37608 | Ferrochromium | CRM | | 0.243 | 64.06 | | 0.34 | | | 0.039 | 0.019 | 0.99 | | | 40g |
| NCS HC25651 | Ferrochromium | CRM | | 2.55 | 63.31 | | 0.47 | | | 0.023 | 0.047 | 2.04 | | | 50g |
| NCS HC25644 | Ferrochromium | CRM | | 0.0064 | 62.57 | | | 8.69 | | 0.024 | 0.029 | 0.75 | | | 50g |
| NCS HC28621 | Ferrochromium | CRM | | 7.78 | 62.54 | 27.09 | 0.307 | | | 0.026 | 0.033 | 1.45 | 0.166 | 0.138 | 50g |
| NCS HC25653 | Ferrochromium | CRM | | 8.70 | 62.49 | | 0.11 | | | 0.025 | 0.024 | 0.15 | 0.016 | | 50g |
| NCS HC37609 | Ferrochromium | CRM | | 8.49 | 61.54 | | 0.20 | | | 0.024 | 0.015 | 2.15 | 0.24 | | 50g |
| NCS HC93611 | Ferrochromium | CRM | | 8.13 | 60.42 | | 0.21 | | | 0.022 | 0.059 | 0.92 | | | 50g |
| NCS HC28622 | Ferrochromium | CRM | | 7.72 | 60.00 | 28.65 | 0.340 | | | 0.025 | 0.033 | 2.43 | 0.261 | 0.153 | 50g |

| 编号 | 描述 | 种类 | C | Co | Cr | Cu | Fe | Mn | N | Ni | P | S | Si | Ti | V | 规格 |
|----------|---------------|-----|------|-------|-------|-------|-------|------|-------|------|-------|-------|------|------|------|------|
| NIST-64C | Ferrochromium | CRM | 4.68 | 0.051 | 68.00 | 0.005 | 24.98 | 0.16 | 0.045 | 0.43 | 0.020 | 0.067 | 1.22 | 0.02 | 0.15 | 100g |

Ferrochromium continued

| 编号 | 描述 | 种类 | C | Cr | Cu | Mn | Mo | P | Pb | S | Si | Sn | Ti | V | 规格 |
|----------|---------------|-----|------|-------|---------|------|---------|-------|----------|-------|------|---------|--------|--------|------|
| BS-130-1 | Ferrochromium | CRM | 7.12 | 51.6 | (0.015) | 1.25 | (0.005) | 0.014 | (0.0003) | 0.034 | 4.41 | (0.001) | (0.38) | (0.32) | 100g |
| BS-130-2 | Ferrochromium | RM | 7.76 | 52.61 | (0.007) | 0.45 | | 0.013 | (0.0002) | 0.045 | 2.12 | (0.001) | (0.10) | (0.38) | 100g |
| BS-130-3 | Ferrochromium | RM | 6.54 | 49.01 | (0.011) | 0.76 | | 0.014 | (0.0003) | 0.029 | 6.25 | (0.001) | (0.18) | (0.36) | 100g |

| 编号 | 描述 | 种类 | C | Cr | Fe | Mn | Ni | P | S | Si | Ti | V | 规格 |
|-------------|---------------|-----|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-----|
| NCS HC93605 | Ferrochromium | CRM | 8.00 | 59.71 | | 0.308 | 0.312 | 0.037 | 0.037 | 2.94 | 0.410 | | 50g |
| NCS HC93609 | Ferrochromium | CRM | 8.36 | 58.28 | | 0.207 | | 0.023 | 0.068 | 1.15 | | | 50g |
| NCS HC28619 | Ferrochromium | CRM | 7.28 | 56.76 | 30.22 | 0.300 | | 0.023 | 0.024 | 4.25 | 0.412 | 0.203 | 50g |
| NCS HC14615 | Ferrochromium | CRM | 8.07 | 56.16 | | 0.23 | | 0.017 | 0.045 | 2.30 | | | 50g |
| NCS HC14614 | Ferrochromium | CRM | 7.67 | 55.81 | | 0.28 | | 0.018 | 0.032 | 2.57 | | | 50g |
| NCS HC28620 | Ferrochromium | CRM | 7.60 | 55.77 | 31.41 | 0.382 | | 0.022 | 0.031 | 3.95 | 0.423 | 0.175 | 50g |
| NCS HC14613 | Ferrochromium | CRM | 7.56 | 54.04 | | 0.18 | | 0.020 | 0.032 | 2.58 | | | 50g |

| 编号 | 描述 | 种类 | As | C | Ca | Cr | Cu | Mn | Ni | P | Pb | S | Si | V | Zn | 规格 |
|-------------|---------------|-----|--------|------|--------|-------|-------|------|-------|-------|----------|--------|------|-------|-------|-----|
| NCS HC28630 | Ferrochromium | CRM | 0.0027 | 0.45 | 0.0012 | 58.65 | 0.020 | 0.35 | 0.242 | 0.030 | (0.0001) | 0.0015 | 1.43 | 0.154 | 0.010 | 50g |

| 编号 | 描述 | 种类 | Al | C | Co | Cr | Cu | Fe | Mn | N | Ni | P | S | Si | 规格 |
|--------------|---------------|-----|----|-------|--------|-------|-------|-------|-------|--------|-------|--------|--------|-------|------|
| SARM 74 | Ferrochromium | CRM | | 6.44 | 0.06 | 49.7 | | 37.5 | 0.193 | | 0.21 | 0.018 | 0.04 | 4.34 | 100g |
| ECRM-B 585-2 | Ferrochromium | CRM | | 5.488 | 0.0622 | 49.05 | | 38.67 | 0.801 | 0.0127 | 0.294 | 0.0255 | 0.0320 | 4.69 | 100g |
| DH-SL54-03 | Ferrochromium | RM | | 0.579 | 0.034 | 0.028 | 36.93 | 0.020 | 20.93 | 0.41 | 0.190 | 0.022 | | 40.46 | 50g |

| 编号 | Ti | V | Zr |
|----|----|---|----|
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| SARM 74 | 0.47 | 0.36 | |
| ECRM-B 585-2 | 0.263 | 0.282 | |
| DH-SL54-03 | 0.124 | 0.074 | 0.005 |

| 编号 | 描述 | 种类 | Al | C | Co | Cr | P | S | Si | 规格 |
|----------|---------------|-----|-----|-------|-------|------|------|-------|------|------|
| VS-F24/2 | Ferrochromium | CRM | 0.9 | 0.02 | | 29.2 | 0.03 | 0.002 | 49.9 | 100g |
| VS-F10/2 | Ferrochromium | CRM | | 0.018 | | | | | | 100g |
| VS-F12/3 | Ferrochromium | CRM | | 0.289 | | | | | | 100g |
| VS-F37 | Ferrochromium | CRM | | 1.1 | | | | | | 100g |
| VS-F38 | Ferrochromium | CRM | | 4.62 | | | | | | 100g |
| VS-F9/2 | Ferrochromium | CRM | | 0.012 | 0.042 | | | | | 100g |



Ferromanganese 锰铁

| 编号 | 描述 | 种类 | C | Cr | Cu | Fe | Mn | N | Ni | P | S | Si | 规格 |
|--------------|----------------|-----|-------|-------|-------|-------|-------|------|------|-------|---------|--------|------|
| NCS HC18602 | Ferromanganese | CRM | 5.84 | | | | 64.78 | | | 0.194 | 0.017 | 2.38 | 50g |
| NCS HC37611 | Ferromanganese | CRM | 6.57 | | | | 65.75 | | | 0.382 | 0.0090 | 0.64 | 50g |
| NCS HC11602 | Ferromanganese | CRM | 6.72 | | 0.080 | 18.14 | 73.88 | | | 0.152 | 0.005 | 0.43 | 100g |
| NCS HC25642 | Ferromanganese | CRM | 1.14 | | | | 74.02 | 4.92 | | 0.183 | 0.0065 | 1.70 | 50g |
| SEI-701-6 | Ferromanganese | CRM | 6.94 | | | | 74.4 | | | 0.112 | (0.002) | (0.03) | 150g |
| NCS HC25632 | Ferromanganese | CRM | 6.68 | | | | 78.42 | | | 0.204 | 0.009 | 0.69 | 50g |
| NCS HC25621 | Ferromanganese | CRM | 1.40 | | | | 79.44 | | | 0.344 | 0.0029 | 1.51 | 50g |
| VS-F7/4 | Ferromanganese | CRM | 6.8 | | | 12.75 | 79.8 | | | 0.372 | 0.0037 | 0.269 | 100g |
| IPT-54 | Ferromanganese | CRM | 1.20 | 0.043 | 0.059 | 15.9 | 80.4 | | 0.14 | 0.22 | 0.003 | 1.74 | 120g |
| NCS HC25620 | Ferromanganese | CRM | 1.50 | | | | 80.48 | | | 0.153 | 0.0030 | 0.94 | 50g |
| ECRM-F 503-1 | Ferromanganese | CRM | 0.700 | | | | 80.8 | | | 0.069 | (0.009) | 0.865 | 100g |
| NM 332 | Ferromanganese | CRM | 6.82 | | | | 80.8 | | | 0.19 | | 1.14 | 100g |
| NCS HC25629A | Ferromanganese | CRM | 0.310 | | | | 81.68 | | | 0.196 | 0.0022 | 1.06 | 50g |
| NCS HC25619b | Ferromanganese | CRM | 1.20 | | | | 81.74 | | | 0.163 | 0.0018 | 0.75 | 50g |
| NCS HC25619a | Ferromanganese | CRM | 1.18 | | | | 81.95 | | | 0.163 | 0.0018 | 0.75 | 50g |
| NCS HC15607 | Ferromanganese | CRM | 0.135 | | | 16.59 | 82.59 | | | 0.033 | 0.0074 | 0.73 | 100g |
| NCS HC25629 | Ferromanganese | CRM | 0.300 | | | | 84.28 | | | 0.196 | 0.0016 | 0.62 | 50g |
| VS-F29/2 | Ferromanganese | CRM | 0.299 | | | 2.16 | 84.6 | 4.69 | | 0.053 | 0.032 | | 100g |
| NM 331 | Ferromanganese | CRM | 0.115 | | | | 85.48 | | | 0.129 | | 1.74 | 100g |
| NCS HC15605 | Ferromanganese | CRM | 0.056 | | | 13.83 | 85.95 | | | 0.030 | 0.011 | 0.19 | 100g |

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| ECRM-B 583-1 | Ferromanganese | CRM | 0.333 | | | | 86.42 | (0.041) | | 0.146 | (0.007) | 0.396 | | 100g |
| VS-F29/3 | Ferromanganese | CRM | 0.146 | | | 2.26 | 87.5 | 4.63 | | 0.055 | 0.031 | | | 100g |
| NCS HC15606 | Ferromanganese | CRM | 0.047 | | | 6.64 | 92.92 | | | 0.020 | 0.012 | 0.47 | | 100g |
| VS-F5/3 | Ferromanganese | CRM | 0.079 | | 0.0055 | 2.73 | 95.9 | | | 0.062 | 0.0095 | 1.25 | | 100g |

| 编号 | 描述 | 种类 | As | C | Ca | Cr | Cu | Fe | Mn | Ni | P | Pb | 规格 |
|--------------|----------------|-----|-------|-------|--------|--------|--------|-------|-------|--------|-------|--------|------|
| NCS HC28625 | Ferromanganese | CRM | 0.047 | 6.14 | 0.0006 | 0.014 | 0.065 | 26.42 | 65.98 | 0.032 | 0.805 | 0.0092 | 50g |
| NCS HC28627 | Ferromanganese | CRM | 0.025 | 6.23 | 0.0040 | 0.026 | 0.070 | 26.60 | 66.27 | 0.087 | 0.428 | 0.077 | 50g |
| NCS HC28626 | Ferromanganese | CRM | 0.015 | 6.26 | 0.0054 | 0.032 | 0.072 | 26.62 | 66.44 | 0.109 | 0.268 | 0.106 | 50g |
| NCS HC28628 | Ferromanganese | CRM | 0.055 | 1.84 | 0.0036 | 0.124 | 0.152 | 17.86 | 76.55 | 0.132 | 0.265 | 1.30 | 50g |
| ECRM-D 502-2 | Ferromanganese | CRM | | 6.94 | | 0.0265 | 0.0370 | | 77.87 | 0.0384 | 0.148 | 0.0179 | 100g |
| NIST-68C | Ferromanganese | CRM | 0.021 | 6.72 | | 0.074 | | 12.3 | 80.04 | | 0.19 | | 100g |
| NCS HC28629 | Ferromanganese | CRM | 0.017 | 0.296 | 0.0012 | 0.033 | 0.127 | 16.47 | 82.61 | 0.032 | 0.080 | 0.126 | 50g |

| 编号 | S | Si | Ti | V | Zn |
|--------------|--------|-------|--------|-------|--------|
| NCS HC28625 | 0.0034 | 0.525 | 0.081 | 0.055 | 0.0082 |
| NCS HC28627 | 0.0023 | 0.208 | 0.027 | 0.110 | 0.022 |
| NCS HC28626 | 0.0014 | 0.073 | 0.0035 | 0.133 | 0.026 |
| NCS HC28628 | 0.017 | 1.84 | 0.0065 | 0.100 | 0.0017 |
| ECRM-D 502-2 | | | 0.0034 | | |
| NIST-68C | 0.008 | 0.225 | | | |
| NCS HC28629 | 0.0022 | 0.475 | 0.041 | 0.011 | |

Ferromanganese continued 锰铁

| 编号 | 描述 | 种类 | Al | As | B | Bi | C | Co | Cr | Cu | Fe | Mn | Mo | N | 规格 |
|-------------|----------------|-----|-------|-------|---------|------------|-------|-------|-------|-------|-------|-------|---------|---|------|
| DH-SX12-03 | Ferromanganese | RM | | | | | 1.293 | 0.141 | 0.076 | 0.051 | 8.87 | 88.15 | | | 50g |
| DH-SX12-06 | Ferromanganese | RM | | 0.159 | | | 1.482 | 0.166 | 0.105 | 0.088 | 15.91 | 80.24 | 0.028 | | 50g |
| DH-SX12-07 | Ferromanganese | RM | | | | | 1.630 | 0.039 | 0.060 | 0.016 | 8.780 | 88.00 | | | 50g |
| DH-SX12-16 | Ferromanganese | RM | 0.033 | | | | 1.44 | 0.019 | 0.071 | | 17.03 | 78.30 | | | 50g |
| NCS HC41601 | Ferromanganese | CRM | | 0.048 | | (<0.00005) | 0.86 | 0.145 | 0.335 | 0.107 | 13.48 | 83.35 | (0.018) | | 150g |
| MQ-MHCX01 | Ferromanganese | CRM | 0.006 | | (0.08) | | 1.34 | | 0.16 | 0.11 | 7.32 | 87.5 | | | 150g |
| MQ-MHCX02 | Ferromanganese | CRM | 0.032 | | (0.013) | | 5.04 | | 0.08 | 0.05 | 8.76 | 79.7 | | | 150g |

| 编号 | Ni | O | P | Pb | S | Sb | Si | Sn | Ti | V | Zn |
|-------------|-------|--------|-------|-------|---------|-------|-------|--------|-------|--------|-------|
| DH-SX12-03 | 0.067 | | 0.114 | 0.003 | | | 0.863 | | 0.001 | 0.015 | 0.030 |
| DH-SX12-06 | 0.140 | | 0.229 | | | | 0.350 | | 0.004 | 0.072 | 0.001 |
| DH-SX12-07 | 0.022 | | 0.081 | 0.002 | | | 1.113 | | | 0.026 | 0.009 |
| DH-SX12-16 | 0.047 | | 0.123 | | | | 1.25 | | | 0.019 | |
| NCS HC41601 | 0.080 | (0.12) | 0.180 | 0.068 | (0.003) | 0.015 | 0.948 | 0.0019 | | (0.03) | 0.12 |

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|-----------|------|------|--------|------|-------|
| MQ-MHCX01 | 0.06 | 0.25 | 0.0040 | 1.13 | 0.009 |
| MQ-MHCX02 | 0.08 | 0.50 | 0.0033 | 4.71 | 0.065 |

Ferromolybdenum 钼铁

| 编号 | 描述 | 种类 | Al | As | Bi | C | Co | Cr | Cu | Fe | Mn | Mo | N | Ni | O | 规格 |
|-------------|-----------------|-----|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| NCS HC18605 | Ferromolybdenum | CRM | | | | 0.015 | | | 0.63 | | | 55.78 | | | | 50g |
| NCS HC93606 | Ferromolybdenum | CRM | | | | 0.073 | | | 0.494 | | | 56.12 | | | | 50g |
| NCS HC37604 | Ferromolybdenum | CRM | | | | 0.044 | | | 0.117 | | | 57.65 | | | | 50g |
| NM 321A | Ferromolybdenum | CRM | | | | 0.028 | | | | 39.06 | 0.023 | 59.36 | | | | 100g |
| NCS HC28623 | Ferromolybdenum | CRM | | 0.016 | | 0.032 | | 0.011 | 0.368 | 38.48 | 0.185 | 60.61 | | 0.033 | | 50g |
| NCS HC28624 | Ferromolybdenum | CRM | | 0.0078 | | 0.019 | | 0.052 | 1.07 | 37.22 | 0.039 | 61.00 | | 0.144 | | 50g |
| VS-F17/3 | Ferromolybdenum | CRM | | 0.021 | 0.0009 | 0.42 | | | 0.31 | | | 61.2 | | | | 100g |
| NCS HC37603 | Ferromolybdenum | CRM | | | | 0.054 | | | 0.126 | | | 61.41 | | | | 50g |
| DH-SL20-12 | Ferromolybdenum | RM | | | | 0.011 | | | 0.390 | 27.82 | 0.042 | 69.99 | 0.014 | | 0.534 | 50g |
| ECRM 578-1 | Ferromolybdenum | CRM | | | | 0.016 | | | 0.136 | | | 72.23 | | | | 100g |
| DH-SL20-10 | Ferromolybdenum | RM | 0.008 | | | | 0.020 | 0.035 | 0.464 | 20.66 | 0.010 | 78.09 | | 0.112 | | 50g |

| 编号 | P | Pb | S | Sb | Si | Sn | W | Zn |
|-------------|--------|--------|-------|--------|-------|--------|-------|--------|
| NCS HC18605 | 0.154 | | 0.079 | | 0.055 | | | |
| NCS HC93606 | 0.037 | | 0.044 | 0.0036 | 0.190 | | | |
| NCS HC37604 | 0.046 | | 0.069 | | 0.71 | | | |
| NM 321A | 0.08 | | 0.035 | | 1.155 | | | |
| NCS HC28623 | 0.031 | 0.0006 | 0.047 | 0.0043 | 0.275 | 0.0007 | 0.034 | |
| NCS HC28624 | 0.044 | 0.0022 | 0.078 | 0.0059 | 0.367 | 0.0026 | 0.047 | |
| VS-F17/3 | 0.042 | 0.0051 | 0.085 | 0.024 | 0.48 | 0.0029 | 0.022 | 0.0038 |
| NCS HC37603 | 0.046 | | 0.071 | | 0.30 | | | |
| DH-SL20-12 | 0.028 | | 0.084 | | 0.790 | | | |
| ECRM 578-1 | 0.024 | | 0.065 | | 0.208 | | | |
| DH-SL20-10 | <0.017 | | | | 0.161 | | | |

Ferronickel 镍铁

| 编号 | 描述 | 种类 | As | C | Co | Cr | Cu | Fe | Ni | P | S | Si | 规格 |
|-------------|-------------|-----|-------|--------|------|------|------|------|-------|-------|-------|------|------|
| NCS HC25656 | Ferronickel | CRM | | 3.06 | | 3.62 | | | 12.16 | 0.046 | 0.245 | 1.04 | 50g |
| VS-F41 | Ferronickel | CRM | 0.058 | 0.0124 | 2.04 | | 0.47 | 5.68 | 91.4 | | 0.132 | | 100g |

Ferroniobium 铌铁

| 编号 | 描述 | 种类 | Al | C | Co | Cr | Cu | Fe | Mn | N | Nb | Ni | O | P | Pb | 规格 |
|--------------|--------------|-----|------|-------|----|----|----|----|----|---|-------|----|---|---|----|------|
| ECRM-B 576-1 | Ferroniobium | CRM | 2.53 | 0.201 | | | | | | | 43.90 | | | | | 100g |

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|--------------|--------------|-----|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| DH-SL28-09 | Ferroniobium | RM | 2.22 | 0.495 | 0.003 | 0.035 | 0.037 | 27.46 | 0.530 | 60.12 | 0.017 | 0.097 | 0.010 | 50g | | |
| ECRM-B 579-1 | Ferroniobium | CRM | 1.86 | 0.037 | 0.005 | | | | | 62.87 | | 0.064 | | 100g | | |
| DH-SL28-07 | Ferroniobium | RM | 0.064 | 0.099 | 0.005 | 0.028 | 0.279 | 31.93 | 0.136 | 64.09 | 0.015 | 0.114 | 0.021 | 50g | | |
| DH-SL28-08 | Ferroniobium | RM | 3.20 | 0.181 | 0.003 | 0.038 | 0.048 | 24.02 | 0.415 | 64.49 | 0.012 | 0.071 | 0.008 | 50g | | |
| NCS HC93607 | Ferroniobium | CRM | 1.50 | 0.101 | | | 0.038 | | | 64.60 | | 0.194 | | 50g | | |
| DH-SL28-06 | Ferroniobium | RM | 0.061 | 0.081 | 0.004 | 0.028 | 0.341 | 30.69 | 0.129 | 0.583 | 65.05 | 0.017 | 0.280 | 0.109 | 0.034 | 50g |
| NCS HC18606 | Ferroniobium | CRM | 1.35 | 0.070 | | | | | 0.29 | | 66.24 | | 0.159 | | 50g | |
| NCS HC25650 | Ferroniobium | CRM | 0.89 | 0.074 | | | 0.023 | | | | 66.34 | | 0.085 | | 50g | |
| DH-SL28-11 | Ferroniobium | RM | 1.309 | 0.080 | | 0.038 | | 29.29 | 0.181 | | 67.50 | 0.012 | 0.090 | 0.038 | 50g | |
| VS-F20/3 | Ferroniobium | CRM | 0.35 | 0.136 | 0.0056 | | | 33.3 | | 0.067 | 63.5* | | 0.039 | | 100g | |

| 编号 | S | Si | Sn | Ta | Ti | V | W | Zr |
|--------------|--------|-------|--------|---------|-------|-------|-------|-------|
| ECRM-B 576-1 | | 1.79 | 0.195 | 0.306 | 1.32 | | | |
| DH-SL28-09 | | 3.47 | | 0.217 | 1.35 | 0.878 | | 0.238 |
| ECRM-B 579-1 | 0.021 | 1.03 | 0.344 | 3.85 | 0.567 | | | |
| DH-SL28-07 | | 1.94 | 0.012 | 0.066 | 0.045 | 0.014 | 0.018 | |
| DH-SL28-08 | | 3.17 | 0.051 | 0.171 | 1.82 | 1.16 | | 0.222 |
| NCS HC93607 | 0.013 | 1.04 | | 0.097 | 0.585 | | | |
| DH-SL28-06 | | 2.11 | 0.084 | 0.071 | 0.044 | 0.015 | 0.009 | 0.005 |
| NCS HC18606 | 0.008 | 1.09 | | 0.084 | 0.78 | | | |
| NCS HC25650 | 0.028 | 1.01 | | (0.081) | 0.49 | | | |
| DH-SL28-11 | 0.085 | 0.271 | 0.066 | 0.102 | 0.695 | 0.011 | | |
| VS-F20/3 | 0.0091 | 0.67 | 0.0014 | 63.5 | 0.292 | | | |

* Nb + Ta

Ferrophosphorus 磷铁

| 编号 | 描述 | 种类 | Al | C | Ca | Cr | Cu | Fe | Mn | Mo | Nb | Ni | P | S | Si | 规格 |
|------------|-----------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| DH-SL22-03 | Ferrophosphorus | RM | 0.012 | 0.015 | 0.158 | 0.230 | 0.13 | 66.53 | 2.10 | 0.011 | 0.026 | 0.090 | 27.40 | 0.002 | 0.479 | 50g |
| DH-SL22-04 | Ferrophosphorus | RM | 0.056 | 0.043 | 0.681 | 0.077 | 0.214 | 69.2 | 0.964 | | 0.038 | 0.047 | 25.69 | 0.023 | 1.238 | 50g |
| NIST-90 | Ferrophosphorus | CRM | | | | | | | | | | | 26.2 | | | 75g |
| VS-F28/2 | Ferrophosphorus | CRM | | | | | | | 1.20 | | | | 16.05 | 0.021 | 1.11 | 100g |

| 编号 | Ti | V |
|------------|-------|-------|
| DH-SL22-03 | 1.89 | 0.356 |
| DH-SL22-04 | 0.836 | 0.150 |
| NIST-90 | | |
| VS-F28/2 | | |

Ferrosilicon 硅铁

| 编号 | 描述 | 种类 | Al | Ca | Fe | P | S | Si | 规格 |
|----------|------------------|-----|------|------|-------|-------|--------|------|------|
| VS-F25/3 | Ferrosilicalcium | CRM | 0.67 | 21.3 | 23.06 | 0.011 | 0.0056 | 51.5 | 100g |

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| 编号 | 描述 | 种类 | Ca | Ce | Fe | La | Mg | Mn | REE | Si | Ti | 规格 |
|-------------|--------------|-----|------|--------|---------|--------|-------|-------|-------|-------|-------|------|
| NCS HC39602 | Ferrosilicon | CRM | 1.98 | | 22.18 | | 10.56 | 3.43 | 21.20 | 37.18 | 1.92 | 100g |
| NCS HC28614 | Ferrosilicon | CRM | 6.26 | | | | | 0.460 | 26.38 | 38.92 | 0.416 | 100g |
| NCS HC28613 | Ferrosilicon | CRM | 5.00 | | | | | 0.455 | 23.78 | 40.00 | 0.280 | 100g |
| NCS HC39601 | Ferrosilicon | CRM | 3.21 | | 20.81 | | 9.50 | 2.72 | 20.09 | 40.31 | 1.50 | 100g |
| NCS HC28615 | Ferrosilicon | CRM | 5.60 | | | | | 0.390 | 20.00 | 41.02 | 0.235 | 100g |
| NCS HC28610 | Ferrosilicon | CRM | 0.76 | (1.86) | (43.4) | (0.88) | 5.52 | 0.46 | 3.71 | 42.05 | 0.275 | 80g |
| NCS HC28611 | Ferrosilicon | CRM | 0.84 | | (40.7) | | 5.70 | 0.55 | 5.10 | 43.22 | 0.362 | 80g |
| NCS HC28612 | Ferrosilicon | CRM | 0.90 | | (36.43) | | 8.25 | 0.63 | 6.42 | 43.44 | 0.435 | 80g |
| NCS HC39603 | Ferrosilicon | CRM | 2.65 | | 21.78 | | 8.51 | 2.23 | 18.10 | 43.55 | 1.35 | 100g |
| NCS HC28609 | Ferrosilicon | CRM | 1.01 | | (31.67) | | 10.20 | 0.70 | 8.66 | 43.90 | 0.54 | 80g |

| 编号 | 描述 | 种类 | Al | C | Ca | Cr | Cu | Fe | Mn | Ni | P | S | Si | Ti | 规格 |
|-------------|--------------|-----|------|-------|-------|-------|-------|-------|-------|------|-------|--------|-------|-------|------|
| VS-F1/3 | Ferrosilicon | CRM | 0.74 | 0.499 | | 0.361 | | | 0.510 | | 0.042 | 0.0027 | 24.5 | 0.072 | 100g |
| VS-F2/3 | Ferrosilicon | CRM | 1.03 | 0.027 | 0.056 | 0.324 | | | 0.306 | | 0.035 | 0.0023 | 44.2 | | 100g |
| NCS HC37601 | Ferrosilicon | CRM | 2.18 | | | 0.142 | | 26.88 | 0.177 | | 0.024 | | 68.91 | | 80g |
| NCS HC19602 | Ferrosilicon | CRM | 2.45 | 0.12 | 2.47 | 0.077 | | 23.81 | 0.308 | | 0.027 | | 69.47 | | 100g |
| NCS HC18601 | Ferrosilicon | CRM | 2.16 | 0.19 | 0.64 | 0.109 | | | 0.205 | | 0.019 | 0.010 | 72.44 | | 50g |
| NCS HC11601 | Ferrosilicon | CRM | 1.11 | 0.068 | 0.30 | 0.080 | 0.029 | | 0.26 | | 0.023 | 0.003 | 72.95 | | 100g |
| NCS HC37602 | Ferrosilicon | CRM | 2.74 | | 0.616 | | | 21.37 | 0.14 | | 0.022 | | 73.29 | | 80g |
| SARM 33 | Ferrosilicon | CRM | 0.62 | 1.01 | | 0.43 | 0.29 | 80.2 | 0.75 | 0.28 | 0.043 | | 15.60 | | 100g |

| 编号 | 描述 | 种类 | Al | C | Ca | Cr | Cu | Fe | Mn | Ni | P | S | Si | Ti | 规格 |
|--------------|--------------|-----|------|--------|-------|--------|-------|-------|-------|--------|--------|---------|-------|-------|------|
| BS-140-1 | Ferrosilicon | RM | 0.68 | (0.03) | 0.04 | (0.25) | 0.13 | 52.80 | 0.46 | 0.15 | (0.02) | (0.004) | 45.20 | 0.09 | 100g |
| BS-140-4 | Ferrosilicon | RM | 0.90 | (0.05) | 0.09 | (0.19) | 0.09 | 47.50 | 1.00 | 0.11 | (0.02) | (0.004) | 49.80 | 0.09 | 100g |
| BS-140-3 | Ferrosilicon | RM | 0.59 | (0.05) | 0.09 | (0.18) | 0.09 | 50.85 | 0.60 | 0.09 | (0.02) | (0.004) | 47.20 | 0.07 | 100g |
| BS-140-2 | Ferrosilicon | RM | 0.62 | (0.03) | 0.03 | (0.25) | 0.14 | 46.12 | 0.53 | 0.15 | (0.02) | (0.004) | 51.85 | 0.10 | 100g |
| NCS HC93616 | Ferrosilicon | CRM | 2.14 | 0.208 | 2.05 | 0.022 | 0.019 | 21.06 | 0.237 | 0.0069 | 0.023 | 0.0033 | 73.61 | 0.121 | 100g |
| NCS HC11601A | Ferrosilicon | CRM | 1.14 | 0.073 | 0.34 | 0.085 | 0.031 | 0.26 | | | 0.023 | 0.003 | 73.75 | | 100g |
| NCS HC93602 | Ferrosilicon | CRM | 1.28 | 0.196 | 0.986 | 0.052 | 0.013 | 20.96 | 1.09 | 0.0071 | 0.024 | 0.0052 | 74.81 | 0.106 | 50g |
| NCS HC93601 | Ferrosilicon | CRM | 1.40 | 0.148 | 1.15 | 0.044 | 0.019 | 20.23 | 0.588 | 0.0093 | 0.021 | 0.0026 | 75.46 | 0.097 | 50g |
| JK 39 | Ferrosilicon | CRM | 1.45 | 0.105 | 0.24 | | 0.013 | 21.6 | 0.165 | | 0.018 | | 75.9 | 0.116 | 50g |

| 编号 | 描述 | 种类 | Al | C | Ca | Cr | Cu | Fe | Mg | Mn | Ni | P | S | Si | Ti | 规格 |
|--------------|--------------|-----|-------|--------|--------|-------|-------|-------|-------|-------|--------|-------|---------|-------|-------|------|
| NCS HC93617 | Ferrosilicon | CRM | 1.75 | 0.220 | 1.31 | 0.027 | 0.015 | 19.43 | | 0.237 | 0.0056 | 0.025 | 0.0039 | 76.34 | 0.119 | 100g |
| NCS HC25618 | Ferrosilicon | CRM | 0.78 | 0.066 | 0.19 | 0.097 | | | | 0.14 | | 0.025 | 0.003 | 76.42 | | 50g |
| NCS HC93603 | Ferrosilicon | CRM | 1.52 | 0.095 | 1.373 | 0.043 | 0.025 | 19.07 | | 0.281 | 0.012 | 0.019 | 0.0023 | 76.53 | 0.085 | 50g |
| DH-SL23-12 | Ferrosilicon | RM | 3.40 | 4.96 | 10.48 | 0.083 | 0.020 | 12.38 | 0.193 | 0.114 | 0.013 | 0.011 | 0.056 | 48.30 | 0.062 | 50g |
| IPT-70 | Ferrosilicon | CRM | 0.21 | 0.087 | 0.16 | 0.046 | 0.066 | 54.1 | 0.016 | 0.283 | 0.022 | 0.018 | (0.006) | 44.7 | 0.018 | 60g |
| DH-SL23-11 | Ferrosilicon | RM | 4.36 | 8.31 | 7.84 | 0.027 | 0.016 | 9.06 | 1.15 | 0.080 | 0.007 | 0.011 | 0.048 | 50.00 | 0.070 | 50g |
| DH-SL23-15 | Ferrosilicon | RM | 1.316 | 0.042 | 0.357 | 0.143 | 0.042 | 19.86 | 0.025 | 0.159 | 0.048 | 0.023 | | 77.06 | 0.086 | 50g |
| NCS HC25647 | Ferrosilicon | CRM | 0.011 | 0.0068 | 0.0030 | 0.010 | | | | 0.074 | | 0.012 | 0.003 | 77.42 | 0.043 | 50g |
| DH-SL23-14 | Ferrosilicon | RM | 0.410 | 0.031 | 0.094 | 0.082 | 0.049 | 19.89 | | 0.190 | 0.044 | 0.028 | | 78.33 | 0.067 | 50g |
| ECRM-D 529-1 | Ferrosilicon | CRM | 0.86 | 0.10 | 0.46 | | 0.01 | 6.15 | 0.04 | 0.04 | | 0.013 | | 91.11 | 0.09 | 100g |

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Ferrosilicon continued 硅铁

| 编号 | 描述 | 种类 | Al | Ba | C | Ca | Cr | Cu | Fe | Mg | Mn | N | Ni | P | S | 规格 |
|-------------|--------------|-----|-------|-------|--------|----------|--------|-------|-------|-------|-------|--------|--------|-------|---------|------|
| NCS HC15602 | Ferrosilicon | CRM | 0.011 | | 0.0074 | (0.0013) | 0.077 | 0.057 | 23.65 | | 0.149 | | 0.026 | 0.014 | 0.0035 | 50g |
| DH-SL23-06 | Ferrosilicon | RM | 1.42 | | 0.120 | 0.193 | 0.155 | 0.103 | 30.09 | 0.019 | 0.222 | | 0.075 | 0.023 | | 50g |
| DH-SL23-05 | Ferrosilicon | RM | 1.64 | | 0.238 | 1.45 | 0.021 | 0.009 | 18.62 | 0.013 | 0.070 | | 0.004 | 0.016 | | 50g |
| VS-F4/2 | Ferrosilicon | CRM | 0.076 | | 0.023 | (0.03) | 0.119 | 0.073 | | | 0.14 | (0.02) | 0.061 | 0.024 | (0.002) | 100g |
| IPT-143 | Ferrosilicon | CRM | 0.57 | 0.126 | 0.054 | 0.79 | 0.0044 | 0.014 | 22.4 | 0.039 | 0.110 | | 0.0028 | 0.025 | 0.0012 | 50g |
| DH-SL23-10 | Ferrosilicon | RM | 2.041 | 0.042 | 0.11 | 1.019 | 0.019 | 0.011 | 19.42 | 0.029 | 0.139 | | 0.006 | 0.021 | | 50g |

| 编号 | Si | Sr | Ti | V | Zn | Zr |
|-------------|-------|-------|-------|--------|--------|-------|
| NCS HC15602 | 75.9 | | 0.027 | 0.0036 | | |
| DH-SL23-06 | 66.98 | | 0.118 | 0.007 | | |
| DH-SL23-05 | 76.58 | | 0.107 | 0.005 | | |
| VS-F4/2 | 74.1 | | 0.094 | | 0.0013 | |
| IPT-143 | 75.1 | 0.014 | 0.068 | | | 0.082 |
| DH-SL23-10 | 75.94 | | 0.093 | | | |

| 编号 | 描述 | 种类 | Al | As | B | Ba | C | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | 规格 |
|-------------|--------------|-----|--------|--------|--------|--------|-------|--------|--------|--------|-------|-------|--------|-------|--------|-----|
| NIST-195 | Ferrosilicon | CRM | 0.046 | | 0.0010 | | 0.034 | 0.053 | <0.01 | 0.047 | 0.047 | 23.6 | | 0.17 | | 75g |
| NIST-59A | Ferrosilicon | CRM | 0.35 | | 0.058 | | 0.046 | 0.042 | | 0.080 | 0.052 | 50.05 | | 0.75 | | 50g |
| NIST-58A | Ferrosilicon | CRM | 0.95 | | 0.0010 | | 0.014 | 0.30 | <0.01 | 0.020 | 0.024 | 25.23 | | 0.16 | | 75g |
| NCS HC14612 | Ferrosilicon | CRM | 0.0074 | | 0.0022 | | 0.016 | 0.0067 | 0.0012 | 0.0044 | 0.011 | 22.12 | | 0.020 | | 80g |
| NCS HC14607 | Ferrosilicon | CRM | 0.78 | 0.0015 | 0.0032 | 0.0043 | 0.19 | 0.14 | 0.0047 | 0.014 | 0.060 | 41.89 | 0.0068 | 0.22 | 0.011 | 70g |
| NCS HC14606 | Ferrosilicon | CRM | 0.24 | 0.0012 | 0.0029 | 0.0060 | 0.024 | 0.064 | 0.0031 | 0.0053 | 0.049 | 20.24 | 0.0051 | 0.058 | 0.0013 | 70g |
| NCS HC25652 | Ferrosilicon | CRM | | | | | 0.35 | | | | | | | | | 50g |

| 编号 | N | Ni | O | P | S | Si | Sn | Ti | V | Zr |
|-------------|-------|--------|---------|--------|--------|-------|--------|-------|--------|-------|
| NIST-195 | | 0.032 | | 0.017 | 0.001 | 75.3 | | 0.037 | | 0.011 |
| NIST-59A | | 0.033 | | 0.016 | 0.002 | 48.10 | | | | |
| NIST-58A | | 0.012 | | 0.009 | <0.002 | 73.20 | | 0.051 | | 0.002 |
| NCS HC14612 | | 0.016 | | 0.0074 | 0.0030 | 77.49 | | 0.011 | | |
| NCS HC14607 | | 0.0063 | (0.665) | 0.038 | 0.0048 | 55.73 | 0.0004 | 0.119 | 0.011 | |
| NCS HC14606 | | 0.035 | (0.256) | 0.0093 | 0.0037 | 78.96 | 0.0003 | 0.032 | 0.0024 | |
| NCS HC25652 | 28.15 | | | 0.014 | 0.003 | 51.85 | | 0.052 | | |

| 编号 | 描述 | 种类 | Al | C | Ca | Cr | Cu | Fe | Mg | Mn | Mo | Ni | P | S | Si | 规格 |
|------------|---------------------|----|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-----|
| DH-SL29-01 | Ferrosilicotitanium | RM | 0.597 | 0.183 | 0.200 | 0.062 | 0.021 | 26.58 | 0.210 | 1.72 | 0.149 | 0.044 | 0.013 | 0.005 | 56.73 | 50g |
| DH-SL29-02 | Ferrosilicotitanium | RM | 0.613 | 0.284 | 0.220 | 0.059 | 0.022 | 24.80 | 0.234 | 1.64 | 0.126 | 0.043 | 0.010 | 0.005 | 59.25 | 50g |

| 编号 | Ti | V | Zr |
|------------|-------|-------|-------|
| DH-SL29-01 | 12.03 | 0.161 | 0.046 |
| DH-SL29-02 | 11.21 | 0.154 | 0.046 |

| 编号 | 描述 | 种类 | Al | C | Ca | Cr | Fe | Hf | Mn | N | Ni | P | S | Si | Ti | 规格 |
|------------|----------|----|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| DH-SL30-01 | Fe-Si-Zr | RM | 0.852 | 0.338 | 0.157 | 0.004 | 8.87 | 0.804 | 0.210 | 0.027 | 0.013 | 0.033 | 0.002 | 51.14 | 0.073 | 100g |

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| 编号 | Zr |
|------------|-------|
| DH-SL30-01 | 36.06 |

| 编号 | 描述 | 种类 | Al | C | Cr | Cu | Fe | Mn | Ni | P | Si | Ti | V | 规格 |
|------------|----------|----|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|
| DH-SL54-03 | Fe-Si-Cr | RM | 0.579 | 0.034 | 36.93 | 0.020 | 20.93 | 0.41 | 0.190 | 0.022 | 40.46 | 0.124 | 0.074 | 100g |

Ferrotitanium 钛铁

| 编号 | 描述 | 种类 | Al | Al (sol.) | C | Cu | Mn | P | S | Si | Sn | Ti | V | 规格 |
|--------------|---------------|-----|-------|-----------|-------|---------|-------|---------|-------|------|-------|-------|-------|------|
| NM 341 | Ferrotitanium | CRM | 5.54 | | | | | | | 2.55 | | 24.91 | | 100g |
| ECRM-F 510-1 | Ferrotitanium | CRM | (4.9) | | 0.058 | | | (0.035) | | 4.65 | | 26.95 | | 100g |
| NCS HC26609 | Ferrotitanium | CRM | 6.21 | | 0.048 | 0.102 | 2.36 | 0.035 | 0.020 | 5.61 | | 27.47 | | 50g |
| NCS HC18604 | Ferrotitanium | CRM | 5.38 | | 0.065 | 0.117 | 2.67 | 0.043 | 0.013 | 4.68 | | 27.93 | | 50g |
| NCS HC93608 | Ferrotitanium | CRM | 3.00 | | 0.095 | 0.281 | 0.255 | 0.014 | 0.015 | 0.30 | | 32.22 | | 50g |
| ECRM 584-1 | Ferrotitanium | CRM | 7.19 | (6.0) | 0.044 | | 1.13 | 0.032 | 0.030 | 1.80 | | 37.17 | | 100g |
| NCS HC26613 | Ferrotitanium | CRM | 8.13 | | 0.019 | (0.005) | 1.11 | 0.020 | 0.012 | 1.84 | | 30.24 | 0.19 | 50g |
| NCS HC19605 | Ferrotitanium | CRM | 8.61 | | 0.032 | 0.025 | 0.81 | 0.032 | 0.009 | 4.20 | 0.061 | 38.81 | 0.303 | 100g |
| NCS HC19604 | Ferrotitanium | CRM | 10.64 | | 0.041 | | 1.59 | 0.051 | 0.011 | 3.46 | 0.056 | 43.81 | 0.158 | 100g |

| 编号 | 描述 | 种类 | Al | As | B | Bi | C | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | 规格 |
|--------------|---------------|-----|-------|---------|------|----------|-------|------|-------|-------|-------|-------|-------|-------|--------|------|
| VS-F42 | Ferrotitanium | CRM | 11.41 | | | | 0.55 | | | 2.22 | 1.32 | | | 1.10 | 0.106 | 100g |
| VS-F43 | Ferrotitanium | CRM | 11.11 | | | | 0.098 | | | 0.354 | 0.336 | | | 1.22 | 0.0036 | 100g |
| ECRM-D 589-1 | Ferrotitanium | CRM | 5.34 | | | | 0.13 | | 0.11 | | 0.15 | 16.9 | | 0.15 | | 100g |
| DH-SL24-14 | Ferrotitanium | RM | 5.34 | | | | 0.132 | | 0.115 | 0.506 | 0.146 | 16.93 | | 0.151 | 0.934 | 50g |
| VS-F30/3 | Ferrotitanium | CRM | 3.63 | (0.003) | | (<0.001) | 0.308 | | | 0.58 | 0.113 | 19.74 | | 0.335 | 0.92 | 100g |
| BS-FETI-2 | Ferrotitanium | RM | 12.7 | | 1.10 | | 0.46 | 0.96 | 0.04 | 0.30 | 0.43 | | (0.4) | 7.91 | 0.15 | 100g |
| BS-FETI-1 | Ferrotitanium | RM | 12.5 | | 0.60 | | 0.57 | 1.12 | 0.028 | 0.33 | 0.60 | | (0.4) | 7.7 | 0.06 | 100g |
| NCS HC15601 | Ferrotitanium | CRM | 0.3 | | | | 0.057 | | | 0.039 | 0.037 | 26.57 | | 0.106 | 0.028 | 50g |

| 编号 | N | Nb | Ni | P | Pb | S | Sb | Si | Sn | Ti | V | Zn | Zr |
|--------------|-------|------|-------|--------|----------|--------|----------|------|-------|-------|-------|---------|--------|
| VS-F42 | | | | 0.050 | | 0.023 | | 6.74 | | 27.13 | 0.33 | 0.129 | |
| VS-F43 | 0.085 | | | 0.038 | | 0.0058 | | 2.50 | 0.013 | 31.9 | 0.152 | 0.032 | 0.059 |
| ECRM-D 589-1 | 0.65 | | | 0.010 | | 0.016 | | 0.41 | | 68.4 | | | (0.89) |
| DH-SL24-14 | 0.64 | | 0.663 | | | 0.0152 | | | 0.550 | 68.40 | 2.32 | | 0.866 |
| VS-F30/3 | 0.68 | | 0.6 | 0.0044 | (0.0006) | 0.012 | (0.0006) | 0.4 | 0.1 | 70 | 0.56 | (0.003) | 0.397 |
| BS-FETI-2 | 0.16 | 0.03 | 0.16 | 0.053 | | 0.012 | | 3.2 | 0.16 | 19.4 | 0.81 | (0.02) | 3.6 |
| BS-FETI-1 | 0.143 | 0.05 | 0.17 | 0.050 | | 0.009 | | 2.9 | 0.11 | 19.9 | 0.69 | (0.04) | 3.6 |
| NCS HC15601 | | | 0.29 | 0.0071 | | 0.0047 | | 1.47 | | 70.02 | 0.011 | | |

Ferrotungsten 钨铁

| 编号 | 描述 | 种类 | Al | As | Bi | C | Cr | Cu | Fe | Mn | Mo | P | Pb | S | Sb | 规格 |
|--------------|---------------|-----|--------|-------|-----------|--------|-------|--------|--------|-------|-------|--------|---------|---------|--------|------|
| ECRM-B 555-1 | Ferrotungsten | CRM | 0.14 | | | 0.025 | | | (15.2) | | | (0.02) | | (0.018) | | 100g |
| ECRM-B 590-1 | Ferrotungsten | CRM | (0.36) | | | 0.0250 | | 0.0484 | | 0.136 | 0.101 | | | | | 100g |
| VS-F18/2 | Ferrotungsten | CRM | | 0.028 | (<0.0001) | 0.075 | | 0.105 | | 0.095 | 0.56 | 0.042 | 0.00014 | 0.071 | 0.0069 | 100g |
| VS-F33/1 | Ferrotungsten | CRM | | 0.002 | | | 0.048 | 0.06 | | 0.089 | 5.39 | 0.017 | | 0.022 | 0.0006 | 100g |

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| 编号 | Si | Sn | W | Zn |
|--------------|------|--------|-------|-----------|
| ECRM-B 555-1 | 1.75 | 0.034 | 79.9 | |
| ECRM-B 590-1 | 1.05 | 0.045 | 79.55 | |
| VS-F18/2 | 0.35 | 0.038 | 74.7 | (<0.0001) |
| VS-F33/1 | 0.62 | 0.0017 | 78.9 | |

Ferrovanadium 钒铁

| 编号 | 描述 | 种类 | Al | As | C | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | N | Ni | 规格 |
|-------------|---------------|-----|---------|----------|-------|---------|-------|-------|-------|-------|---------|-------|-------|-------|-------|------|
| DH-SL25-09 | Ferrovanadium | RM | 0.480 | | 0.216 | | 0.010 | 2.16 | 0.315 | 52.05 | <0.020 | 2.41 | 0.136 | 0.290 | 0.327 | 50g |
| VS-F32/3 | Ferrovanadium | CRM | (<0.05) | (<0.001) | (0.4) | | | | (0.2) | (40) | | 3.14 | | 7.51 | | 100g |
| BS-FEV42 | Ferrovanadium | RM | (0.06) | | 0.30 | (0.042) | | 5.21 | 0.31 | 39.45 | (0.06) | 3.37 | 0.024 | 0.20 | 3.85 | 100g |
| VS-F19/3 | Ferrovanadium | CRM | (0.005) | 0.0009 | 0.418 | | | 1.21 | 0.204 | | | 3.30 | | | | 100g |
| BS-FEV45 | Ferrovanadium | RM | (0.013) | | 0.24 | (0.009) | | 5.82 | 0.41 | 33.8 | (0.014) | 4.14 | 0.01 | 0.26 | 4.28 | 100g |
| NCS HC28634 | Ferrovanadium | CRM | 0.0061 | 0.024 | 0.475 | 0.115 | | 0.289 | 0.064 | | | 0.365 | | | 0.067 | 50g |
| NCS HC18608 | Ferrovanadium | CRM | 0.158 | | 0.40 | | | | | | | 0.26 | | | | 50g |

| 编号 | O | P | Pb | S | Si | Ti | V | W |
|-------------|-------|--------|--------|---------|-------|-------|-------|-------|
| DH-SL25-09 | 0.167 | 0.034 | | | 3.73 | 0.345 | 37.63 | 0.009 |
| VS-F32/3 | | (0.05) | | (0.008) | (1.2) | | 40.2 | |
| BS-FEV42 | | 0.12 | | 0.31 | 3.81 | 0.033 | 42.35 | |
| VS-F19/3 | | 0.059 | | 0.0102 | 1.47 | | 42.6 | |
| BS-FEV45 | | 0.12 | | 0.33 | 4.86 | 0.022 | 45.27 | |
| NCS HC28634 | | 0.093 | 0.0004 | 0.014 | 1.89 | | 47.32 | |
| NCS HC18608 | | 0.049 | | 0.043 | 0.76 | | 48.93 | |

| 编号 | 描述 | 种类 | Al | As | B | C | Ca | Cr | Cu | Fe | Mg | Mn | N | Ni | O | 规格 |
|--------------|---------------|-----|--------|--------|----------|-------|----------|-------|--------|-------|---------|-------|---------|--------|---------|------|
| ECRM-B 577-1 | Ferrovanadium | CRM | 0.414 | | | 0.089 | | | 0.054 | | | 0.158 | | 0.053 | | 100g |
| NM 351 | Ferrovanadium | CRM | | | | | | | | | | | | | | 100g |
| NCS HC26614 | Ferrovanadium | CRM | 0.04 | | | 0.39 | | | | | | 0.27 | 0.095 | | (0.67) | 50g |
| NCS HC28633 | Ferrovanadium | CRM | 0.0026 | 0.0017 | | 0.285 | 0.022 | 0.110 | 0.054 | | | 0.663 | | 0.011 | | 50g |
| NCS HC18609 | Ferrovanadium | CRM | 1.24 | | | 0.102 | | | | | | 0.069 | | | | 25g |
| ECRM-D 591-1 | Ferrovanadium | CRM | 3.19 | 0.0022 | (0.0018) | 0.141 | (0.0328) | | 0.0596 | 14.59 | (0.044) | 0.307 | (0.308) | 0.0141 | (0.516) | 100g |
| VS-F40 | Ferrovanadium | CRM | 2.12 | | | 0.096 | | 0.185 | 0.81 | | | 1.49 | | | | 100g |
| ECRM-F 511-1 | Ferrovanadium | CRM | | | | 0.049 | | | | | | | | | | 100g |

| 编号 | P | Pb | S | Si | Ti | V |
|--------------|--------|--------|--------|-------|---------|-------|
| ECRM-B 577-1 | 0.035 | | 0.034 | 1.79 | | 50.16 |
| NM 351 | | | | | | 52.10 |
| NCS HC26614 | 0.060 | | 0.023 | 1.35 | | 53.71 |
| NCS HC28633 | 0.056 | 0.0006 | 0.0044 | 0.682 | | 54.02 |
| NCS HC18609 | 0.055 | | 0.043 | 1.26 | | 78.54 |
| ECRM-D 591-1 | 0.0299 | | 0.0153 | 0.847 | (0.044) | 79.72 |
| VS-F40 | 0.022 | | 0.014 | 1.31 | | 80.1 |

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| | | | | |
|--------------|---------|-------|-------|------|
| ECRM-F 511-1 | (0.016) | 0.018 | 0.341 | 80.7 |
|--------------|---------|-------|-------|------|

Fertilizers肥料

Fertilizers肥料

| 编号 | 描述 | 种类 | Al ₂ O ₃ (g/kg) | CO ₂ (g/kg) | CaO (g/kg) | F (g/kg) | Fe ₂ O ₃ (g/kg) | MgO (g/kg) | P ₂ O ₅ (g/kg) | SO ₃ (g/kg) | SO ₄ (g/kg) | SiO ₂ (g/kg) | As (mg/kg) | B (mg/kg) | Cd (mg/kg) | 规格 |
|---------|-------------------------|-----|---------------------------------------|------------------------|------------|----------|---------------------------------------|------------|--------------------------------------|------------------------|------------------------|-------------------------|------------|-----------|------------|------|
| BCR-032 | Moroccan phosphate rock | CRM | 5.5 | 51.0 | 518 | 40.4 | 2.3 | 4.0 | 329.8 | 18.4 | | 20.9 | (9.5) | (22.6) | (20.8) | 100g |
| BCR-033 | Super-phosphate | CRM | 11.0 | | 314.8 | 16.5 | 4.0 | 2.1 | 193.4 | | 428.0 | 29.2 | | | | 100g |

| 编号 | Co (mg/kg) | Cr (mg/kg) | Cu (mg/kg) | Hg (mg/kg) | Mn (mg/kg) | Ni (mg/kg) | Ti (mg/kg) | V (mg/kg) | Zn (mg/kg) |
|---------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|
| BCR-032 | (0.59) | (257) | (33.7) | (0.055) | (18.8) | (34.6) | (171) | (153) | (253) |
| BCR-033 | | | | | | | | | |

| 编号 | 描述 | 种类 | Ca (g/kg) | Cl (g/kg) | K (g/kg) | Mg (g/kg) | NH ₄ -N (g/kg) | NO ₃ -N (g/kg) | N-total (g/kg) | Na (g/kg) | SO ₄ (g/kg) | water soluble K (g/kg) | 规格 |
|---------|-------------------------------------|-----|-----------|-----------|----------|-----------|---------------------------|---------------------------|----------------|-----------|------------------------|------------------------|------|
| BCR-113 | Potassium chloride | CRM | 1.03 | 478.0 | 502.5 | 0.24 | | | | 15.3 | | 501.3 | 100g |
| BCR-114 | Potassium sulphate | CRM | 9.4 | 18.5 | 418.0 | 0.74 | | | | 11.0 | 533 | 417.6 | 100g |
| BCR-178 | Calcium ammonium nitrate fertiliser | CRM | 88.82 | | | | 130.44 | 130.15 | 260.19 | | | | 100g |

| 编号 | 描述 | 种类 | Al ₂ O ₃ | CaO | CdO | Cr ₂ O ₃ | F | Fe ₂ O ₃ | K ₂ O | Na ₂ O | P ₂ O ₅ | SiO ₂ | TiO ₂ | V ₂ O ₅ | 规格 |
|-----------|----------------|-----|--------------------------------|-------|-------|--------------------------------|-----|--------------------------------|------------------|-------------------|-------------------------------|------------------|------------------|-------------------------------|------|
| NIST-120C | Phosphate rock | CRM | | 48.02 | | | | | 0.147 | | 33.34 | | | | 90 g |
| NIST-694 | Phosphate rock | CRM | 1.8 | 43.6 | 0.015 | 0.10 | 3.2 | 0.79 | 0.51 | 0.86 | 30.2 | 11.2 | 0.11 | 0.31 | 90 g |

| 编号 | MgO | MnO | U |
|-----------|------|--------|---------|
| NIST-120C | | | |
| NIST-694 | 0.33 | 0.0116 | 0.01414 |

| 编号 | 描述 | 种类 | N | K | 规格 |
|----------|-------------------|-----|-------|-------|------|
| NIST-193 | Potassium Nitrate | CRM | 13.85 | 38.66 | 90 g |

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| 编号 | 描述 | 种类 | P (mg/kg) | K (mg/kg) | 规格 |
|----------|--------------------------------|-----|-----------|-----------|------|
| NIST-194 | Potassium dihydrogen phosphate | CRM | 22.769 | 28.735 | 90 g |

| 编号 | 描述 | 种类 | Al | As (mg/kg) | B | Cd (mg/kg) | Ca | Cl | Cr (mg/kg) | Co (mg/kg) | Cu (mg/kg) | Fe (tot) | Pb (mg/kg) | Mg | Mn | 规格 |
|----------|---|-----|--------|------------|---------|------------|------|-----|------------|------------|------------|----------|------------|------|-------|------|
| NIST-695 | Trace Elements in Multi-Nutrient Fertilizer | CRM | (0.61) | 200 | (0.111) | 16.9 | 2.26 | 4.6 | 244 | 65.3 | 1225 | 3.99 | 273 | 1.79 | 0.305 | 70 g |

| 编号 | Hg (mg/kg) | Mo (mg/kg) | Ni (mg/kg) | N | P | K | Se (mg/kg) | Na | Ti (mg/kg) | V (mg/kg) | Zn |
|----------|------------|------------|------------|--------|-------|-------|------------|-------|------------|-----------|-------|
| NIST-695 | 1.955 | 20.0 | 135 | (13.9) | (7.2) | 11.65 | (2.1) | 0.405 | 310 | 122 | 0.325 |

Flux熔剂

| 编号 | 描述 | 种类 | Al2O3 | C | CaF2 | CaO | Fe | Fe2O3 | K2O | MgO | MnO | Na2O | P | S | SiO2 | 规格 |
|-------|-----------------------|-----|-------|-------|------|-------|-------|-------|------|------|------|------|-------|--------|------|------|
| VS-W6 | Welding flux | CRM | 3.00 | | 7.71 | 12.72 | | 1.3 | | 1.6 | 38.5 | | 0.069 | 0.0092 | 39.2 | 125g |
| VS-W7 | Welding flux | CRM | 29.8 | | 28.5 | 24 | | 0.56 | 0.94 | 11.4 | 0.4 | 1.41 | 0.011 | 0.031 | 23.4 | 100g |
| VS-W8 | Electro slag additive | CRM | 26.5 | 0.039 | 68.6 | 52.7 | 0.147 | | | | | | 0.013 | 0.013 | 1.77 | 100g |

Glass玻璃

| 编号 | 描述 | 种类 | Ag | As | Au | B | Ba | Cd | Ce | Co | Cr | Cu | Dy | Er | Eu | 规格 |
|----------|------------------------|-----|------|------|--------|--------|------|--------|------|--------|------|--------|------|------|--------|---------|
| NIST-610 | Glass - trace elements | CRM | 268 | 340 | (25) | (351) | 453 | 244 | | (390) | 415 | (444) | | | | 4wafers |
| NIST-611 | Glass - trace elements | CRM | 268 | 340 | (25) | (351) | 453 | 244 | | (390) | 415 | (444) | | | | 4wafers |
| NIST-612 | Glass - trace elements | CRM | 22.0 | 37.4 | (5) | (32) | 38.6 | 29.9 | (39) | (35.5) | 35.0 | (37.7) | (35) | (39) | (36) | 4wafers |
| NIST-613 | Glass - trace elements | CRM | 22.0 | 37.4 | (5) | (32) | 38.6 | 29.9 | (39) | (35.5) | 35.0 | (37.7) | (35) | (39) | (36) | 4wafers |
| NIST-614 | Glass - trace elements | CRM | 0.42 | | (0.5) | (130) | | (0.55) | | (0.73) | | 1.37 | | | (0.99) | 4wafers |
| NIST-615 | Glass - trace elements | CRM | 0.42 | | (0.5) | (130) | | (0.55) | | (0.73) | | 1.37 | | | (0.99) | 4wafers |
| NIST-616 | Glass - trace elements | CRM | | | (0.18) | (0.20) | | | | | | (0.80) | | | | 4wafers |
| NIST-617 | Glass - trace elements | CRM | | | (0.18) | (0.20) | | | | | | (0.80) | | | | 4wafers |

| 编号 | Fe | Ga | Gd | K | La | Li | Mn | Nd | Ni | Pb | Rb | Sb | Sc |
|----------|--------|--------|------|-------|---------|-------|------|------|--------|-------|---------|---------|---------|
| NIST-610 | 458 | | | (461) | | (488) | 457 | | 458.7 | 426 | 425.7 | 415.3 | |
| NIST-611 | 458 | | | (461) | | (488) | 457 | | 458.7 | 426 | 425.7 | 415.3 | |
| NIST-612 | 51 | | (39) | (64) | (36) | (40) | 37.7 | (36) | 38.8 | 38.57 | 31.4 | 34.9 | |
| NIST-613 | 51 | | (39) | (64) | (36) | (40) | 37.7 | (36) | 38.8 | 38.57 | 31.4 | 34.9 | |
| NIST-614 | (13.3) | (1.3) | | 30 | (0.83) | | | | (0.95) | 2.32 | 0.855 | (106) | (0.59) |
| NIST-615 | (13.3) | (1.3) | | 30 | (0.83) | | | | (0.95) | 2.32 | 0.855 | (106) | (0.59) |
| NIST-616 | (11) | (0.23) | | 29 | (0.034) | | | | | 1.85 | (0.100) | (0.078) | (0.026) |
| NIST-617 | (11) | (0.23) | | 29 | (0.034) | | | | | 1.85 | (0.100) | (0.078) | (0.026) |

| 编号 | Se | Sm | Sr | Th | Ti | Tl | U | Yb | Zn |
|----------|-------|------|-------|---------|--------|--------|-------|------|-------|
| NIST-610 | 115.2 | | 515.5 | (457.2) | (437) | (61.8) | 461.5 | | (433) |
| NIST-611 | 115.2 | | 515.5 | (457.2) | (437) | (61.8) | 461.5 | | (433) |
| NIST-612 | 16.1 | (39) | 78.4 | 37.79 | (50.1) | (15.7) | 37.38 | (42) | |
| NIST-613 | 16.1 | (39) | 78.4 | 37.79 | (50.1) | (15.7) | 37.38 | (42) | |

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|----------|-------|--------|-------|----------|--------|
| NIST-614 | 45.8 | 0.748 | (3.1) | (0.269) | 0.823 |
| NIST-615 | 45.8 | 0.748 | (3.1) | (0.269) | 0.823 |
| NIST-616 | 41.72 | 0.0252 | (2.5) | (0.0082) | 0.0721 |
| NIST-617 | 41.72 | 0.0252 | (2.5) | (0.0082) | 0.0721 |

| 编号 | 描述 | 种类 | Al2O3 | As (tot) | B2O3 | BaO | CaO | Cr2O3 | F | Fe (tot)* | Fe2O3 | K2O | LOI | MgO | Mn3O4 | 规格 |
|--------------|---------------------|-----|-------|----------|------|------|--------|-------|------|-----------|-------|-------|------|--------|---------|------|
| SGTGLASS4-P | Fluoride opal glass | CRM | 3.02 | | 0.19 | | 4.24 | | 4.96 | | 0.099 | 0.57 | 0.22 | (0.05) | | 25 g |
| SGTGLASS6-P | Silica glass | CRM | 1.70 | | | | 9.97 | | 4.96 | 0.034 | | (0.1) | | (0.1) | | 25 g |
| SGTGLASS7-P | Silica glass | CRM | 1.50 | | | | 11.03 | | | 0.044 | | 0.43 | 0.07 | 0.14 | | 25 g |
| SGTGLASS8-P | Silica glass | CRM | 0.05 | 0.32 | 0.36 | | (0.02) | | | 0.010 | | 11.85 | 0.21 | (0.02) | | 25 g |
| SGTGLASS10-P | Container glass | CRM | 1.62 | | | 0.02 | 10.7 | 0.020 | | | 0.325 | 0.35 | | 1.81 | (0.038) | 25 g |
| SGTGLASS11-P | Container glass | CRM | 1.83 | | | 0.03 | 10.3 | 0.205 | | | 0.342 | 0.69 | | 2.14 | (0.034) | 25 g |

| 编号 | Na2O | PbO | S (tot) | SO3 | SiO2 | TiO2 | ZnO | ZrO2 |
|--------------|-------|-------|---------|------|-------|-------|---------|------|
| SGTGLASS4-P | 15.45 | | (0.05) | | 64.49 | 0.041 | 3.28 | |
| SGTGLASS6-P | 14.65 | | <0.20 | | 73.06 | 0.02 | 3.28 | |
| SGTGLASS7-P | 13.90 | | 0.19 | | 72.64 | 0.042 | | |
| SGTGLASS8-P | 0.23 | 30.59 | | | 56.34 | 0.02 | | |
| SGTGLASS10-P | 12.2 | | | 0.05 | 72.7 | 0.097 | (0.024) | |
| SGTGLASS11-P | 13.6 | | | 0.06 | 70.7 | 0.068 | (0.015) | |

Glass continued 玻璃

| 编号 | 描述 | 种类 | Al2O3 | As2O3 | As2O5 | B2O3 | BaO | CaO | Cl | Fe2O3 | FeO | K2O | LOI | MgO | MnO | 规格 |
|-----------|---------------------------|-----|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|------|-------------|
| NIST-89 | Lead-barium glass | CRM | 0.18 | 0.03 | 0.36 | | 1.40 | 0.21 | 0.05 | 0.049 | | 8.40 | 0.32 | 0.03 | 0.08 | 45 g |
| NIST-93a | Borosilicate glass | CRM | 2.28 | | | 12.56 | | 0.01 | 0.060 | 0.028 | 0.016 | 0.014 | | 0.005 | | 规格 |
| NIST-620 | Soda-lime flat glass | CRM | 1.80 | 0.056 | | | | 7.11 | | 0.043 | | 0.41 | | 3.69 | | set (3) |
| NIST-621 | Soda-lime container glass | CRM | 2.76 | 0.030 | | | 0.12 | 10.71 | | 0.040 | | 2.01 | | 0.27 | | set (3) |
| NIST-1830 | Soda-lime float glass | CRM | 0.12 | | | | | 8.56 | | 0.121 | 0.032 | 0.04 | | 3.90 | | 3 platelets |
| NIST-1831 | Soda lime sheet glass | CRM | 1.21 | | | | | 8.20 | | 0.087 | 0.025 | 0.33 | | 3.51 | | 3 platelets |
| NIST-1411 | Soft borosilicate glass | CRM | 5.68 | | | 10.94 | 5.00 | 2.18 | | 0.050 | | 2.97 | | 0.33 | | set (10) |

| 编号 | Na2O | P2O5 | PbO | SO3 | SiO2 | SrO | TiO2 | ZnO | ZrO2 |
|-----------|-------|------|-------|------|-------|------|-------|------|-------|
| NIST-89 | 5.70 | 0.23 | 17.50 | 0.03 | 65.35 | | 0.01 | | 0.005 |
| NIST-93a | 3.98 | | | | 80.8 | | 0.014 | | 0.042 |
| NIST-620 | 14.39 | | | 0.28 | 72.08 | | 0.018 | | |
| NIST-621 | 12.74 | | | 0.13 | 71.13 | | 0.014 | | 0.007 |
| NIST-1830 | 13.75 | | | 0.26 | 73.07 | | 0.011 | | |
| NIST-1831 | 13.32 | | | 0.25 | 73.08 | | 0.019 | | |
| NIST-1411 | 10.14 | | | | 58.04 | 0.09 | 0.02 | 3.85 | |

| 编号 | 描述 | 种类 | Al2O3 | As2O3 | B2O3 | BaO | CaO | Cr2O3 | F | Fe2O3 | K2O | MgO | Na2O | PbO | SO3 | 规格 |
|---------|--------------|-----|--------|-------|--------|---------|---------|-----------|--------|-------|-------|---------|-------|-------|-------|-------|
| SV 4001 | Lead Glass | CRM | 1.87 | 0.43 | 1.09 | 0.014 | 1.8 | (0.0026) | (0.85) | 0.038 | 10.43 | 1.11 | 5.73 | 6.53 | | 100 g |
| SV 4002 | Lead Glass | CRM | 0.151 | 0.311 | 0.82 | 1.07 | 2.8 | (0.001) | (0.56) | 0.021 | 13.53 | (0.02) | 2.57 | 10.76 | | 100 g |
| SV 4003 | Lead Glass | CRM | 0.119 | 0.161 | (0.02) | (0.003) | (0.014) | (0.0006) | (0.42) | 0.017 | 12.34 | (0.006) | 1.85 | 23.97 | | 100 g |
| SV 4004 | Flat glass | CRM | (0.61) | | | 0.014 | 8.61 | (0.0009) | | 0.042 | 0.30 | 3.99 | 13.50 | | 0.24 | 100 g |
| SV 4005 | Flat glass | CRM | 1.03 | | | 0.016 | 6.03 | (0.00078) | | 0 | 0.564 | 4.12 | 15.11 | | 0.33 | 100 g |
| SV 4006 | Bottle Glass | CRM | 2.12 | | | 0.051 | 9.89 | 0.115 | | 0.287 | 0.938 | 2.82 | 13.30 | | 0.13 | 100 g |
| SV 4007 | Bottle Glass | CRM | 1.49 | | | (0.025) | 7.33 | 0.004 | | 0.30 | 0.70 | 4.74 | 13.42 | | 0.038 | 100 g |

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| 编号 | SiO2 | TiO2 | ZnO | ZrO2 |
|---------|-------|-------|----------|----------|
| SV 4001 | 69.55 | 0.023 | (0.0021) | (0.012) |
| SV 4002 | 66.07 | 0.023 | 1.043 | 0.033 |
| SV 4003 | 59.49 | 0.019 | 1.55 | (0.025) |
| SV 4004 | 72.4 | 0.037 | | (0.012) |
| SV 4005 | 72.7 | 0.037 | | (0.0082) |
| SV 4006 | 70.1 | 0.047 | | (0.013) |
| SV 4007 | 71.8 | 0.033 | | (0.0087) |

| 编号 | 描述 | 种类 | Al2O3 | B2O3 | BaO | CaO | F | Fe2O3 | K2O | LOI | MgO | MnO | Na2O | SO3 | SiO2 | 规格 |
|-------------------|--------------------------|-----|-------|------|---------|--------|------|--------|--------|------|--------|---------|--------|------|-------|------------|
| EC 1.1 | Silica glass | CRM | | | | 7.7 | | 0.077 | 0.43 | | 4.01 | | 14.22 | 0.27 | 71.94 | 75x75x6 mm |
| NCS DC61103 | Silica glass | CRM | 2.56 | | | 6.37 | | 0.18 | 1.10 | 0.44 | 3.98 | | 13.77 | 0.17 | 71.25 | 50 g |
| NCS DC61104 | Borosilicate glass | CRM | 14.5 | 8.87 | | 16.54 | 0.54 | 0.34 | 0.59 | | 4.4 | | | | | 50 g |
| BAM-S106 | Water in soda lime glass | CRM | | | | (7) | | | | | (4) | | (15) | | (70) | 15x15x1mm |
| BAS-BCS-CRM 313/2 | High purity silica | CRM | 0.068 | | 0.00067 | 0.0160 | | 0.0229 | 0.0108 | | 0.0037 | 0.00032 | 0.0058 | | 99.73 | 100 g |

| 编号 | SrO | TiO2 | cH2O (mol/L) |
|-------------------|---------|--------|--------------|
| EC 1.1 | | 0.029 | |
| NCS DC61103 | | 0.057 | |
| NCS DC61104 | | | |
| BAM-S106 | | | 0.033 |
| BAS-BCS-CRM 313/2 | 0.00024 | 0.0243 | |

Glass continued 玻璃

| 编号 | 描述 | 种类 | Al2O3 | As | Ba | BaO | CaO | Cd | Cl | Co | Cr | Cr (tot) | Cr(VI) | Cr(tot) | Cr2O3 | 规格 |
|----------|----------------------|-----|--------|---------|---------|-------|-------|---------|---------|----------|----------|----------|--------|---------|--------|----------|
| BCR-664 | Glass | CRM | | 0.00059 | 0.00291 | | | 0.00057 | 0.00684 | 0.000277 | 0.000265 | | | | | plate |
| BAM-S004 | Glass | CRM | (2.15) | | | (1.2) | (9.4) | | | | | 0.0471 | 0.0094 | | (0.07) | 50 g |
| BCR-126A | Lead glass | CRM | | | | | 1.033 | | | | | | | | | 300 g |
| IRMM-435 | Pharmaceutical glass | CRM | | | | | | | | | | | | | | 20 vials |

| 编号 | CuO | Fe2O3 | K2O | Li2O | MgO | Na | Na2O | Pb | PbO | SO2 | Sb | Sb2O3 | Se |
|----------|--------|--------|--------|-------|-------|----------|----------|---------|-------|--------|---------|-------|---------|
| BCR-664 | | | | | | | | 0.00531 | | | 0.00243 | | 0.00086 |
| BAM-S004 | (0.04) | (0.06) | (0.16) | | (0.9) | | (14.5) | | | (0.17) | | | |
| BCR-126A | | 0.0055 | 10 | 0.495 | 0.512 | | 3.58 | | 23.98 | | | 0.29 | |
| IRMM-435 | | | | | | 0.000141 | 0.000191 | | | | | | |

| 编号 | SiO2 | ZnO |
|----------|--------|--------|
| BCR-664 | | |
| BAM-S004 | (70.9) | (0.33) |
| BCR-126A | 57.8 | 1.02 |
| IRMM-435 | | |

| 编号 | 描述 | 种类 | Al2O3 | B2O3 | BaO | CaO | Fe2O3 | K2O | MgO | Na2O | SO3 | SiO2 | TiO2 | 规格 |
|---------|-------------------|-----|--------|--------|-------|---------|---------|---------|---------|---------|---------|---------|---------|------------|
| DG DGG1 | Floatglass No.I | CRM | (1.23) | | | (6.73) | (0.191) | (0.338) | (4.18) | (14.95) | (0.436) | (71.72) | (0.137) | 80x50x10mm |
| DG DGG2 | Floatglass No.II | CRM | (0.10) | | | (10.05) | (0.021) | | (3.40) | (13.78) | (0.27) | (72.26) | (0.033) | 80x50x10mm |
| DG DGG3 | Floatglass No.III | CRM | (2.76) | (12.7) | (0.1) | (0.2) | (0.096) | (0.94) | (0.033) | (3.43) | | (78.56) | (0.026) | 100 g |

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| 编号 | 描述 | 种类 | U | 规格 |
|-----------|---------------------------|-----|---------|------|
| IRMM-541 | Uranium-doped oxide glass | CRM | 0.00494 | disc |
| IRMM-540R | Uranium-doped oxide glass | CRM | 0.0015 | disc |

| 编号 | 描述 | 种类 | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | LOI | MgO | Mn3O4 | Na2O | PbO | SiO2 | TiO2 | 规格 |
|-----------------|---------------------|-----|-------|--------|---------|--------|--------|---------|--------|---------|--------|--------|--------|-------|--------|-------|
| BAS-BCS-CRM 516 | Standard Glass Sand | CRM | 0.513 | 0.0040 | 0.0243 | 0.0081 | 0.0596 | 0.127 | 0.24 | 0.0387 | 0.0012 | 0.0195 | 0.0127 | 98.73 | 0.172 | 100 g |
| BAS-BCS-CRM 528 | Standard Glass Sand | CRM | 2.447 | 0.0298 | 0.237 | 0.0008 | 0.1111 | 0.875 | 0.271 | 0.0887 | | 0.101 | 0.0006 | 95.62 | 0.0486 | 100 g |
| NIST-1413 | Glass sand | CRM | 9.9 | 0.12 | 0.74 | | 0.24 | 3.94 | | 0.06 | | | | | | 75 g |
| UN SPS | Glass sand | CRM | 0.248 | | 0.029 | | 0.037 | 0.058 | 0.167 | 0.0071 | | | | | | 100 g |
| IPT-61 | Glass Sand | CRM | 0.054 | | (0.004) | | 0.014 | (0.007) | (0.06) | (0.003) | | | | | | 100 g |
| IPT-62 | Glass Sand | CRM | 0.11 | | (0.004) | | 0.072 | (0.007) | 0.1 | (0.004) | | | | | | 100 g |
| NIST-81a | Glass sand | CRM | 0.66 | | | 0.0046 | 0.082 | | | | | | | | | 75 g |
| NIST-165a | Glass sand | CRM | 0.059 | | | | 0.012 | | | | | | | | | 75 g |

| 编号 | 描述 | 种类 | Ba | Ca | Cr | Fe | K | Li | Mg | Na | P | Si | Sr | Ti | Zr | 规格 |
|-----------|-----------------|-----|-------|-------|--------|------|------|-------|-------|--------|-------|-------|-------|-----|---------|-------|
| NIST-1834 | Fused ore glass | CRM | 0.062 | 0.095 | (0.02) | 0.32 | 0.42 | (4.6) | 0.088 | (0.14) | 0.152 | 20.19 | 0.153 | 1.1 | (0.047) | 100 g |

| 编号 | 描述 | 种类 | Durability (mL of N/50 H2SO4) | 规格 |
|----------|--------------------|-----|-------------------------------|-------|
| NIST-623 | Borosilicate glass | CRM | 0.513 | 2.2kg |
| NIST-622 | Soda lime silica | CRM | 2.447 | 2.2kg |

Quartz石英

| 编号 | 描述 | 种类 | Al2O3 | Ba | CaO | Fe2O3 | K2O | MgO | MnO | Na2O | SiO2 | Sr | TiO2 | 规格 |
|------------|---------------|-----|--------|----------|---------|---------|---------|----------|--------|--------|--------|----------|--------|-------|
| SARM 49 | Quartz | CRM | | 0.000017 | (0.01) | (0.05) | (0.01) | (0.05) | (0.01) | (0.05) | 99.6 | (0.0005) | (0.01) | 100 g |
| SEI-CJR404 | Quartz powder | CRM | 0.0011 | | 0.00002 | 0.00006 | 0.00004 | <0.00001 | | 0.0001 | >99.99 | | 0.0006 | 100g |

| 编号 | 描述 | 种类 | Al2O3 | As | B | Ba | Br | CaO | Ce | Cl | Co | Cr | Cs | Cu | Dy | 规格 |
|----------|---------------|-----|-------|-----------|--------|-------|-----------|------|--------|-------|---------|---------|---------|--------|---------|------|
| UG-QLO-1 | Quartz Latite | CRM | 16.2 | (0.00035) | 0.0036 | 0.137 | (0.00021) | 3.17 | 0.0054 | 0.022 | 0.00072 | 0.00032 | 0.00018 | 0.0029 | 0.00038 | 30 g |

| 编号 | Er | Eu | F | Fe (tot)* | Fe2O3 | FeO | Ge | K2O | La | Li | Lu | MgO |
|----------|---------|----------|-------|-----------|-------|------|-----------|-----|--------|--------|----------|-----|
| UG-QLO-1 | 0.00023 | 0.000143 | 0.028 | 4.35 | 1.02 | 2.97 | (0.00013) | 3.6 | 0.0027 | 0.0025 | 0.000037 | 1 |

| 编号 | Mo | Na2O | Nb | Nd | P2O5 | Pb | Rb | S | SiO2 | Sm | Sn | Sr |
|----------|---------|------|-------|----------|------|-------|--------|---------|------|---------|---------|-------|
| UG-QLO-1 | 0.00026 | 4.2 | 0.001 | (0.0026) | 0.25 | 0.002 | 0.0074 | (0.003) | 65.6 | 0.00049 | 0.00023 | 0.034 |

| 编号 | Ta | Tb | Th | TiO2 | Tm | U | V | W | Y | Yb | Zn | Zr |
|----------|----------|----------|---------|------|----------|---------|--------|----------|--------|---------|--------|--------|
| UG-QLO-1 | 0.000082 | 0.000071 | 0.00045 | 0.62 | 0.000037 | 0.00019 | 0.0054 | 0.000058 | 0.0024 | 0.00023 | 0.0061 | 0.0185 |

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Silicium dioxide 二氧化硅

| 编号 | 描述 | 种类 | Ca | Cd | Cr | Cu | Fe | Ge | Hg | K | Li | Mg | Mn | Na | Ni | 规格 |
|----------|------------------|-----|-----------|-----------|-----------|----------|----------|---------|-----------|----------|----------|----------|----------|---------|----------|-------|
| BAM-RS 1 | Silicium dioxide | CRM | 0.000042 | <0.000005 | 0.0000062 | <0.00001 | 0.000062 | <0.0001 | <0.000005 | 0.000048 | 0.000025 | <0.00005 | <0.00002 | <0.0002 | <0.00002 | 100 g |
| 编号 | | | Pb | SiO2 | Ti | Zn | Zr | | | | | | | | | |
| BAM-RS 1 | | | <0.000015 | 99.99 | 0.00013 | <0.00013 | <0.00001 | | | | | | | | | |



Graphite 石墨

| 编号 | 描述 | 种类 | Al | As | Ca | Cl | Co | Cr | Cu | Fe | K | Mg | Mn | Mo | Na | 规格 |
|---------|--------------------|-----|---------|------------|----------|-----------|------------|----------|------------|-----------|-------------|-----------|-----------|-------------|-----------|-----|
| CB KD-1 | Synthetic Graphite | CRM | 0.0012 | (0.000009) | 0.0074 | (0.00054) | (0.000019) | 0.00032 | 0.000097 | 0.0428 | (0.0021) | (0.00067) | 0.0056 | (0.000095) | (0.0010) | 50g |
| CB KD-2 | Synthetic Graphite | CRM | 0.0035 | (0.000005) | 0.0098 | (0.00041) | (0.000010) | 0.00013 | 0.00010 | 0.0180 | (0.0041) | (0.0021) | 0.0023 | (0.000022) | (0.0020) | 50g |
| CB KD-3 | Synthetic Graphite | CRM | 0.0015 | (0.000004) | 0.0062 | (0.00044) | (0.000007) | 0.000069 | 0.000081 | 0.0111 | (0.0039) | (0.0022) | 0.0013 | (0.000044) | (0.0017) | 50g |
| CB KD-6 | Synthetic Graphite | CRM | 0.0033 | (0.000006) | 0.0126 | (0.00033) | (0.000011) | 0.00034 | 0.00013 | 0.0149 | (0.0025) | (0.00075) | 0.00035 | (0.000062) | (0.0013) | 50g |
| CB LD-4 | Synthetic Graphite | CRM | 0.00077 | (0.000003) | 0.0018 | (0.00034) | (0.000003) | 0.000074 | 0.000053 | 0.0036 | (0.0017) | (0.00031) | 0.000034 | (0.000011) | (0.0002) | 50g |
| CB PD-7 | Synthetic Graphite | CRM | 0.00055 | (0.000003) | 0.0022 | (0.00064) | (0.000003) | 0.00022 | 0.000051 | 0.0059 | (0.0017) | | 0.00011 | (0.000025) | (0.0002) | 50g |
| 编号 | | | Ni | Pb | S | SO4 | Sb | Si | Sn | Sr | Ta | Ti | V | W | Zn | |
| CB KD-1 | | | 0.00060 | (0.00013) | (0.0045) | (0.0093) | (0.000003) | (0.0390) | (<0.00002) | (0.00018) | (0.0000008) | (0.0053) | (0.00066) | (0.000004) | (0.00023) | |
| CB KD-2 | | | 0.00039 | (0.00016) | (0.0044) | (0.0088) | (0.000005) | (0.0145) | (<0.00002) | (0.00028) | (0.0000005) | (0.0046) | (0.00036) | (<0.000008) | (0.00044) | |
| CB KD-3 | | | 0.00042 | (0.000090) | (0.0043) | (0.0085) | (0.000002) | (0.0147) | | (0.00019) | (0.0000006) | (0.0038) | (0.00038) | (<0.000008) | (0.00012) | |

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|---------|---------|-----------|----------|----------|------------|----------|------------|-----------|-------------|----------|-----------|--------------|-----------|
| CB KD-6 | 0.00055 | (0.00011) | (0.0068) | (0.0098) | (0.000003) | (0.0404) | (<0.00002) | (0.00027) | (0.0000011) | (0.0049) | (0.00043) | (<0.000006) | (0.00029) |
| CB LD-4 | 0.00012 | (<0.0001) | (0.0015) | (0.0012) | (0.000002) | (0.0053) | | (0.00006) | (0.0000004) | (0.0020) | (0.00020) | (<0.0000035) | (0.00008) |
| CB PD-7 | 0.00011 | (0.00010) | (0.0023) | (0.0025) | (0.000002) | (0.0050) | | (0.00013) | (0.0000005) | (0.0029) | (0.00029) | (0.000003) | (0.00009) |

| 编号 | Zr |
|---------|-----------|
| CB KD-1 | (0.00075) |
| CB KD-2 | (0.00037) |
| CB KD-3 | (0.00045) |
| CB KD-6 | (0.00086) |
| CB LD-4 | (0.00024) |
| CB PD-7 | (0.00045) |

| 编号 | 描述 | 种类 | Al2O3 | C | C graphitic | CO2 | CaO | Fe2O3 | K2O | L.O.I. | MgO | MnO | Na2O | Ni | Rb | 规格 |
|----------------|------------------------|-----|-------|-------|-------------|------|------|-------|------|--------|------|------|------|-------|-------|------|
| CGL-USZ32-2000 | Graphite ore (CGL 003) | CRM | 9.33 | 14.43 | (11.34) | 4.10 | 7.05 | 3.48 | 2.54 | 22.21 | 1.94 | 0.03 | 0.47 | 0.007 | 0.014 | 100g |
| CGL-USZ33-2000 | Graphite ore (CGL 004) | CRM | 8.46 | 13.38 | (12.0) | 2.45 | | 3.61 | 2.09 | 17.0 | | 0.07 | 0.51 | | | 100g |

| 编号 | SiO2 | TiO2 | Zn | Zr |
|----------------|-------|------|-------|-------|
| CGL-USZ32-2000 | 52.20 | 0.57 | 0.018 | 0.012 |
| CGL-USZ33-2000 | 52.84 | 0.49 | | |

| 编号 | 描述 | 种类 | % Ash | Al2O3 | C graphitic | CO2 | CaO | Fe (tot)* | H2O+ | K2O | MgO | MnO | Na2O | P2O5 | S | 规格 |
|-------------|--------------|-----|-------|-------|-------------|------|------|-----------|------|------|------|-------|------|------|------|-----|
| NCS DC60119 | Graphite Ore | CRM | | 12.93 | 2.91 | 3.60 | 9.37 | 6.73 | 2.60 | 2.54 | 6.10 | 0.084 | 1.60 | 0.13 | 1.18 | 50g |
| NCS DC60120 | Graphite Ore | CRM | | 13.03 | 9.91 | 0.67 | 5.34 | 6.99 | 2.80 | 2.17 | 5.35 | 0.054 | 1.56 | 0.14 | 2.59 | 50g |
| NCS DC60121 | Graphite Ore | CRM | 20.78 | 5.60 | 76.50 | 0.28 | 0.74 | 1.48 | 1.98 | 0.99 | 0.50 | 0.022 | 0.23 | 0.16 | 0.14 | 50g |

| 编号 | SiO2 | TiO2 | Vol. % |
|-------------|-------|------|--------|
| NCS DC60119 | 49.84 | 0.57 | |
| NCS DC60120 | 49.34 | 0.64 | |
| NCS DC60121 | 10.34 | 0.55 | 2.72 |

Gypsum石膏

| 编号 | 描述 | 种类 | Al2O3 | As | Ba | Br | CO2 | CaO | Cd | Ce | Cl | Co | Cr | Cs | 规格 |
|---------|--------|-----|-------|----------|----------|-----------|------|------|----------|------------|--------|-----------|----------|------------|------|
| DT GYPA | Gypsum | CRM | 0.10 | 0.000019 | (0.0028) | (0.00005) | 0.47 | 32.9 | 0.000051 | (0.000070) | 0.0012 | (0.00002) | (0.0002) | (0.000015) | 100g |
| DT GYPC | Gypsum | CRM | 0.79 | 0.00024 | 0.0053 | 0.00017 | 11.2 | 30.4 | | 0.0005 | 0.0156 | 0.00012 | 0.0004 | 0.000041 | 100g |
| DT GYPD | Gypsum | CRM | 2.03 | 0.0003 | 0.0106 | 0.00013 | 3.6 | 28.2 | | 0.0009 | 0.0234 | 0.00024 | 0.0009 | 0.00013 | 100g |

| 编号 | Eu | Fe2O3 | H2O | Hf | K2O | La | LOI | Lu | MgO | Mn | Na2O | P2O5 |
|---------|-----------|-------|-------|------------|-------|----------|-------|-------------|------|--------|-------|-------|
| DT GYPA | 0.0000060 | 0.05 | 19.4 | 0.000026 | 0.021 | 0.000024 | 20.06 | (0.0000006) | 0.18 | 0.0019 | 0.009 | 0.011 |
| DT GYPC | 0.000012 | 0.40 | 14.37 | (0.000036) | 0.36 | 0.0003 | 25.93 | (0.000005) | 5.35 | 0.0065 | 0.022 | 0.018 |

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|---------|---------|------|-------|---------|------|--------|-------|----------|------|--------|------|-------|
| DT GYPD | 0.00017 | 1.08 | 16.76 | 0.00006 | 0.54 | 0.0005 | 20.82 | 0.000067 | 1.73 | 0.0200 | 0.07 | 0.025 |
|---------|---------|------|-------|---------|------|--------|-------|----------|------|--------|------|-------|

| 编号 | Rb | SO3 | Sb | Sc | SiO2 | Sm | SrO | Ta | Th | Ti | TiO2 | U |
|---------|-----------|------|----------|----------|------|-----------|------|----------|-----------|----------|------|----------|
| DT GYPA | (0.00008) | 46.2 | 0.000004 | 0.000009 | 0.45 | 0.0000041 | 0.11 | | (0.00001) | (0.0078) | | 0.000010 |
| DT GYPC | 0.0011 | 33.0 | 0.000016 | 0.00008 | 3.5 | 0.000045 | 0.35 | | 0.000051 | 0.0230 | | 0.000072 |
| DT GYPD | 0.0025 | 36.7 | 0.000028 | 0.0002 | 8.7 | 0.000083 | 0.18 | 0.000015 | 0.00013 | 0.0473 | | 0.000065 |

| 编号 | V | Yb | Zn | Zr |
|---------|--------|-----------|--------|----------|
| DT GYPA | | 0.0000020 | 0.0007 | (0.0009) |
| DT GYPC | | 0.000017 | 0.0015 | 0.0028 |
| DT GYPD | 0.0017 | 0.000044 | 0.0016 | 0.0029 |

| 编号 | 描述 | 种类 | Al2O3 | CO2 | CaO | Cl | Fe2O3 | H2O | K2O | LOI | MgO | Na2O | SO3 | SiO2 | SrO | 规格 |
|--------------|--------|-----|-------|--------|-------|--------|-------|-------|-------|---------|------|-------|-------|------|---------|-----|
| NCS DC60112 | Gypsum | CRM | 0.34 | (4.02) | 39.24 | 0.033 | 0.16 | 0.39 | 0.094 | 4.55 | 1.74 | 0.065 | 51.91 | 1.68 | (0.27) | 50g |
| NCS DC60113 | Gypsum | CRM | 1.92 | (8.63) | 28.50 | 0.019 | 0.63 | 14.27 | 0.38 | (23.55) | 4.92 | 0.021 | 32.55 | 7.21 | (0.071) | 50g |
| NCS DC60115 | Gypsum | CRM | 0.14 | (5.44) | 32.30 | 0.0032 | 0.11 | 17.95 | 0.026 | 23.60 | 2.47 | 0.014 | 40.72 | 0.63 | (0.096) | 50g |
| NCS DC62106B | Gypsum | CRM | | | | | | | | | | | | | | 20g |

| 编号 | TiO2 |
|--------------|-------|
| NCS DC60112 | 0.016 |
| NCS DC60113 | |
| NCS DC60115 | 0.010 |
| NCS DC62106B | |

| 编号 | 描述 | 种类 | Al2O3 | As (ppm) | Ba (ppm) | CaO | Co (ppm) | Cr (ppm) | Cu (ppm) | Fe2O3 | Hg (ppb) | K2O | LOI | MgO | 规格 |
|---------|---------------------|-----|-------|----------|----------|-------|----------|----------|----------|--------|----------|--------|-------|---------|-----|
| LGC2700 | Natural gypsum | CRM | 2.872 | (2.4) | (170) | 26.31 | (3.8) | (15) | (5.0) | 1.150 | 1.35 | 0.830 | 19.78 | (3.2) | 75g |
| LGC2701 | Natural anhydrite | CRM | 0.045 | (0.16) | | 40.82 | (0.35) | (4.4) | (3.5) | 0.0280 | (2.33) | 0.0105 | 0.452 | (0.080) | 75g |
| LGC2702 | Blended gypsum | CRM | 1.121 | (2.4) | (43) | 31.47 | (1.8) | (9.0) | (4.4) | 0.392 | 420 | 0.196 | 21.32 | (0.92) | 75g |
| LGC2703 | Desulfurised gypsum | CRM | 0.459 | (3.5) | | 32.45 | (0.92) | (7.9) | (2.8) | 0.142 | 646 | 0.0340 | 21.21 | (0.16) | 75g |

| 编号 | MnO | Na2O | Ni | Ni (ppm) | P2O5 | Pb (ppm) | SO3 | Se (ppm) | SiO2 | SrO | TiO2 | Tl (ppm) |
|---------|----------|---------|-------|----------|--------|----------|-------|----------|-------|---------|----------|----------|
| LGC2700 | (0.030) | 0.183 | 9.5 | | 0.0367 | (4.2) | 34.67 | | 10.93 | (0.20) | 0.1480 | (0.18) |
| LGC2701 | (0.0025) | (0.023) | (1.9) | | 0.0069 | (1.6) | 57.8 | | 0.112 | (0.18) | (0.0066) | |
| LGC2702 | (0.011) | 0.031 | | 4.8 | 0.0177 | | 41.26 | (5.2) | 3.01 | (0.13) | 0.0550 | (0.18) |
| LGC2703 | (0.0040) | (0.022) | 3.2 | | 0.0120 | (3.6) | 44.84 | (11) | 0.90 | (0.012) | 0.0325 | (0.076) |

| 编号 | V | V (ppm) | Zn | Zn (ppm) |
|---------|-------|---------|-------|----------|
| LGC2700 | 21.3 | | 19.3 | |
| LGC2701 | (2.6) | | (1.6) | |
| LGC2702 | | 10.5 | | 11.7 |
| LGC2703 | 6.0 | | 9.5 | |

Gypsum by-products

| 编号 | 描述 | 种类 | As | CO2 | CaO | Ce | Cl | Co | Cr | Cr2O3 | Dy | Eu | F | Fe2O3 | H2O | 规格 |
|---------|------------------|----|----|------|------|---------|--------|----------|---------|--------|----|----------|--------|-------|------|-------|
| DT FGD1 | Gypsum byproduct | RM | | 0.02 | 32.7 | 0.00005 | (0.01) | 0.000002 | 0.00012 | 0.0002 | | 0.000002 | 0.0095 | 0.014 | 20.7 | 100 g |

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| | | | | | | | | | | | | | | | | |
|---------|------------------|----|----------|------|------|---------|----------|----------|---------|--------|----------|----------|-------|-------|-------|-------|
| DT FGD2 | Gypsum byproduct | RM | 0.00048 | 0.62 | 32.8 | 0.00017 | (0.0115) | 0.000007 | 0.00102 | 0.0015 | 0.000048 | 0.000009 | 0.032 | 0.043 | 20.38 | 100 g |
| DT TIG1 | Gypsum byproduct | RM | 0.000022 | 1.41 | 32.3 | 0.0006 | 0.04 | 0.000026 | 0.0246 | 0.036 | 0.000042 | 0.000008 | 0.023 | 0.26 | 20.3 | 100 g |

| 编号 | Hf | K2O | La | MgO | Mn | Na2O | P2O5 | SO3 | Sb | Sc | Se | SiO2 | Sm |
|---------|----------|-------|----------|-------|---------|-------|------|------|-----------|-----------|---------|------|----------|
| DT FGD1 | | 0.007 | 0.000035 | 0.007 | 0.0002 | 0.005 | 0.03 | 46.4 | 0.000003 | 0.0000023 | 0.00008 | 0.13 | 0.000007 |
| DT FGD2 | 0.000006 | 0.01 | 0.000218 | 0.019 | 0.00025 | 0.02 | 0.05 | 45.6 | 0.0000024 | 0.0000166 | 0.0003 | 0.21 | 0.000052 |
| DT TIG1 | 0.0003 | 0.008 | 0.00027 | 0.12 | 0.0036 | 0.036 | 0.04 | 43.4 | 0.000005 | 0.00171 | | 0.11 | 0.000065 |

| 编号 | SrO | Ta | Tb | Th | Ti | TiO2 | U | V | V2O5 | Yb | Zn | Zr |
|---------|-------|---------|----------|----------|--------|------|---------|---------|---------|----------|----------|---------|
| DT FGD1 | 0.012 | | | 0.000003 | 0.0075 | | | 0.00015 | 0.00003 | | 0.00017 | |
| DT FGD2 | 0.024 | | 0.000007 | 0.000038 | 0.0075 | | 0.00011 | 0.00051 | 0.00009 | 0.000027 | 0.00023 | (0.001) |
| DT TIG1 | 0.42 | 0.00031 | (0.0002) | 0.000214 | 0.6154 | 0.82 | 0.00025 | 0.056 | 0.1 | 0.000031 | (0.0032) | (0.008) |

Heavy minerals

Rutile金红石

| 编号 | 描述 | 种类 | Al2O3 | C (tot) | CO2 | CaO | Cr2O3 | Fe2O3 | C) | MgO | Mn3O4 | Nb | Nb2O5 | P2O5 | S | 规格 |
|------------|------------|-----|-------|---------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|
| DH-SX58-04 | Rutile | RM | 0.249 | | 0.017 | 0.011 | 0.164 | 0.989 | 0.250 | | 0.008 | | 0.369 | 0.017 | | 100g |
| DH-SX58-05 | Rutile | RM | 0.500 | 0.23 | | 0.035 | 0.117 | 3.53 | | 0.032 | 0.124 | | 0.532 | 0.147 | 0.027 | 100g |
| IGS-32 | Rutile | CRM | | | | | | | | | | (0.27) | | | | 45g |
| NIST-670 | Rutile ore | CRM | | | | | 0.23 | 0.86 | | | | | | | | 90g |

| 编号 | SiO2 | Ti | TiO2 | V2O5 | ZrO2 |
|------------|-------|-------|-------|-------|-------|
| DH-SX58-04 | 0.587 | | 95.78 | 0.581 | 0.885 |
| DH-SX58-05 | 0.297 | | 93.35 | 0.243 | 0.198 |
| IGS-32 | | 57.19 | | | |
| NIST-670 | 0.51 | | 96.16 | 0.66 | 0.84 |

Zirconium materials锆石

| 编号 | 描述 | 种类 | Al2O3 | CaO | Fe2O3 | HfO2 | K2O | LOI | MgO | Na2O | Nb2O5 | SiO2 | TiO2 | 规格 |
|------------|--|-----|-------|--------|----------|------|----------|------|--------|--------|-------|---------|----------|-----|
| SEI-CJR051 | Zirconia powder (only available as set SEI-CJR051-054) | CRM | | 0.0017 | 0.0017 | 1.96 | | 0.71 | 0.0004 | 0.015 | | (0.005) | (0.0005) | 50g |
| SEI-CJR052 | | CRM | | 0.019 | (0.0004) | 1.81 | 0.0013 | 0.25 | 0.0042 | 0.021 | | 0.019 | 0.0012 | 50g |
| SEI-CJR053 | | CRM | | 0.021 | 0.030 | 1.67 | (0.0007) | 0.65 | 0.0020 | 0.028 | 0.054 | 0.036 | 0.127 | 50g |
| SEI-CJR054 | | CRM | 0.136 | 0.535 | 0.132 | 1.60 | (0.0003) | 0.15 | 0.208 | 0.0027 | 0.427 | 0.300 | 0.136 | 50g |

Zirconium materials continued锆石

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| 编号 | 描述 | 种类 | Al ₂ O ₃ | BaO | CaO | Fe ₂ O ₃ | HfO ₂ | MgO | P ₂ O ₅ | S | SiO ₂ | SrO | Th | ThO ₂ | TiO ₂ | 规格 |
|-----------------|-----------------------|-----|--------------------------------|-----|--------|--------------------------------|------------------|---------|-------------------------------|--------|------------------|------|--------|------------------|------------------|-------|
| BAS-BCS-CRM 358 | Zirconia | CRM | 0.08 | 0.1 | 1.5 | 0.064 | 1.63 | 3.42 | | | 0.2 | 0.07 | | | 0.2 | 100 g |
| VS-K7 | Zr-Concentrate | CRM | (0.1) | | 5.39 | 0.73 | | | | | 0.65 | | | | | 100 g |
| ASCRM008 | Zirkonsand | CRM | | | 0.012 | 0.063 | | 0.004 | 0.09 | | 32.66 | | | | 0.097 | 100 g |
| BAS-BCS-CRM 388 | Zircon | CRM | 0.291 | | (0.04) | 0.049 | 1.3 | (0.05) | 0.12 | | 32.7 | | | 0.018 | 0.232 | 100 g |
| IGS-35 | Zircon | CRM | | | | | 1.368 | | | | | | | | 0.27 | 50 g |
| VS-K8 | Zr-Concentrate | CRM | 1.16 | | | 0.081 | | | 0.11 | 0.0064 | 32.3 | | | | 0.163 | 100 g |
| SARM 13 | Zirconium Concentrate | CRM | 0.61 | | (0.14) | 0.187 | 1.29 | (0.044) | 0.23 | | 32.56 | | (0.03) | | 0.295 | 100 g |

| 编号 | U | U ₃ O ₈ | Y ₂ O ₃ | ZrO ₂ | ZrO ₂ ** |
|-----------------|----------|-------------------------------|-------------------------------|------------------|---------------------|
| BAS-BCS-CRM 358 | | | | 92.7 | |
| VS-K7 | | | | 92.2 | |
| ASCRM008 | | | | | 66.62 |
| BAS-BCS-CRM 388 | | 0.034 | 0.136 | 66.2 | |
| IGS-35 | | | | 65.86 | |
| VS-K8 | | | | 65.9 | |
| SARM 13 | (0.0328) | | | 64.01 | |

| 编号 | 描述 | 种类 | Al ₂ O ₃ | CaO | Fe (tot)* | Fe ₂ O ₃ | HfO ₂ | K ₂ O | MgO | Na ₂ O | P ₂ O ₅ | SiO ₂ | SnO ₂ | ThO ₂ | TiO ₂ | 规格 |
|-----------------|--------------|-----|--------------------------------|--------|-----------|--------------------------------|------------------|------------------|--------|-------------------|-------------------------------|------------------|------------------|------------------|------------------|-------|
| CERAM-2CAS15 | Zircon | RM | 0.36 | 0.52 | | 0.08 | | 0.02 | 0.11 | 0.03 | | 34.1 | | | 0.18 | 100 g |
| SARM 62 | Zircon (RBM) | CRM | 0.88 | (0.11) | 0.07 | | 1.31 | | (0.04) | | 0.12 | 32.8 | | 0.0158 | 0.13 | 100 g |
| BAS-BCS-RM 204A | Zircon | RM | | 0.15 | | 0.18 | | 0.017 | 0.012 | 0.014 | 0.77 | 37.6 | 1.69 | | 2.22 | 100 g |
| CERAM-AN46 | Zircon Batt | RM | 30.5 | 0.21 | | 0.85 | | 1.01 | 5.36 | 0.15 | | 45.5 | | | 0.5 | 100 g |

| 编号 | U ₃ O ₈ | ZrO ₂ | ZrO ₂ ** |
|-----------------|-------------------------------|------------------|---------------------|
| CERAM-2CAS15 | | | 64.6 |
| SARM 62 | 0.0354 | 64.2 | |
| BAS-BCS-RM 204A | | | 53.8 |
| CERAM-AN46 | | | 15.7 |

** ZrO₂ + HfO₂

Industrial materials工业标样

Silicon nitride氮化硅

| 编号 | 描述 | 种类 | Al | C | Ca | Co | Fe | Mg | N | Na | W | a-phase* | a-phase** | amorph.* | amorph.** | 规格 |
|-----------|----------------------------|-----|--------|---------|---------|---------|---------|---------|------|----------|---------|----------|-----------|----------|-----------|-------|
| ERM-ED101 | Silicon nitride (BAM-S001) | CRM | 0.0469 | (0.162) | 0.00141 | 0.00435 | 0.00795 | 0.00043 | 38.1 | 0.000759 | 0.00413 | | | | | 50g |
| NIST-656 | CRM Silicon nitride | CRM | | | | | | | | | | 87.5 | 16.3 | 9.5 | 8.6 | 2x10g |

| 编号 | b-phase | b-phase* | b-phase** |
|-----------|---------|----------|-----------|
| ERM-ED101 | (7.43) | | |
| NIST-656 | | 3.0 | 75.1 |

* High alpha phase powder

** High beta phase powder

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Vanadium pentoxide五氧化二钒

| 编号 | 描述 | 种类 | Al2O3 | As | C | CaO | Fe | Fe2O3 | K | K2O | MgO | MnO | Na | Na2O | P | 规格 |
|-------------|--------------------|-----|----------|----------|-------|----------|------|-------|-------|--------|--------|------|-------|------|--------|------|
| NCS HC26612 | Vanadium Pentoxide | CRM | | 0.016 | | | 0.16 | | | 0.15 | | | | 1.11 | 0.027 | 50g |
| SARM 38 | Vanadium Pentoxide | CRM | 0.14 | (0.0010) | | (0.0190) | | 0.119 | | 0.0600 | 0.0037 | | | 0.22 | | 100g |
| VS-P30 | Vanadium Pentoxide | CRM | | | 0.007 | 0.88 | 0.51 | | 0.053 | | | 2.58 | 0.032 | | 0.0064 | 100g |
| 编号 | | | P2O5 | S | Si | SiO2 | TiO2 | V | V2O4 | V2O5 | | | | | | |
| NCS HC26612 | | | | 0.014 | 0.17 | | | | | 98.09 | | | | | | |
| SARM 38 | | | (0.0080) | (0.0045) | | 0.11 | | 55.84 | 3.07 | 95.52 | | | | | | |
| VS-P30 | | | | 0.0072 | | 0.43 | 0.21 | | | 94.3 | | | | | | |

Zeolite沸石

| 编号 | 描述 | 种类 | Al2O3 | As | Ba | Be | Bi | CaO | Cd | Ce | Co | Cr | Cs | Cu | Dy | 规格 |
|----------------|-------------------|-----|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|-----|
| FLX-CRM104 | Zeolite | CRM | 33.74 | | | | | 0.063 | | | | | | | | 35g |
| CGL-USZ49-2009 | Zeolite (CGL 010) | CRM | 12.98 | 0.00605 | 0.0371 | (0.000275) | (0.00117) | 1.34 | (0.000785) | (0.00748) | 0.00203 | 0.00127 | 0.000473 | 0.00793 | (0.000346) | 70g |
| 编号 | | | Er | Eu | Fe2O3 | Fe (tot)* | Ga | Gd | Hf | Hg | Ho | K2O | La | Li | LOI | |
| FLX-CRM104 | | | | | 0.014 | | | | | | | 0.075 | | | 22.64 | |
| CGL-USZ49-2009 | | | (0.000183) | (0.000050) | | 1.27 | 0.00138 | (0.000381) | (0.000538) | (0.000185) | (0.000066) | 3.19 | 0.00372 | (0.000607) | 8.80 | |
| 编号 | | | Lu | MgO | MnO | Mo | Na2O | Nb | Nd | Ni | P2O5 | Pb | Pr | Rb | Sb | |
| FLX-CRM104 | | | | | | | 20.06 | | | | | | | | | |
| CGL-USZ49-2009 | | | (0.000027) | 0.573 | 0.033 | (0.000043) | 3.44 | 0.00141 | 0.00273 | 0.00146 | 0.032 | 0.00842 | (0.000797) | 0.0106 | (0.00509) | |
| 编号 | | | Sc | SiO2 | Sm | Sn | Sr | Ta | Tb | Th | TiO2 | Tm | U | V | W | |
| FLX-CRM104 | | | | 45.98 | | | | | | | | | | | | |
| CGL-USZ49-2009 | | | 0.000327 | 67.44 | (0.000482) | (0.000227) | 0.0635 | (0.000116) | (0.00059) | 0.00172 | 0.158 | (0.000027) | 0.000309 | 0.00423 | (0.000152) | |
| 编号 | | | Y | Yb | Zn | Zr | | | | | | | | | | |
| FLX-CRM104 | | | | | | | | | | | | | | | | |
| CGL-USZ49-2009 | | | 0.00186 | (0.000181) | 0.00793 | 0.0177 | | | | | | | | | | |

Yttrium oxide氧化钇

| 编号 | 描述 | 种类 | Er2O3 | Eu2O3 | Gd2O3 | Ho2O3 | La2O3 | Lu2O3 | Nd2O3 | Pr6O11 | Sm2O3 | Tb4O7 | Tm2O3 | Yb2O3 | 规格 |
|-------------|---------------|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|
| NCS DC93001 | Yttrium oxide | CRM | | 0.000248 | 0.000215 | 0.000231 | 0.001754 | 0.000202 | 0.000244 | 0.000212 | 0.000216 | 0.000205 | 0.000203 | 0.000221 | 10g |
| NCS DC93002 | Yttrium oxide | CRM | 0.002162 | 0.00226 | 0.002122 | 0.002125 | 0.000288 | 0.002017 | 0.002152 | 0.001884 | 0.002107 | 0.002085 | 0.002034 | 0.002104 | 10g |

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Auto catalysts 常规分析标样

| 编号 | 描述 | 种类 | Pb (mg/kg) | Pd (mg/kg) | Pt (mg/kg) | Rh (mg/kg) | Al | Ca | Ce | Fe | La | Si | Ba | Zn (mg/kg) | Zr (mg/kg) | 规格 |
|------------|-------------------------|-----|------------|------------|------------|------------|------|-------|-------|-------|--------|-------|--------|------------|------------|------|
| NIST-2556 | Used auto catalyst | CRM | 6228 | 326.0 | 697.4 | 51.2 | (40) | (0.1) | (1) | (0.8) | (0.7) | (0.2) | (0.01) | (600) | (300) | 70g |
| NIST-2557* | Used auto catalyst | CRM | 13931 | 233.2 | 1131 | 135.1 | (20) | (0.2) | (1.3) | (1.5) | (0.07) | (18) | (0.29) | (1000) | (300) | 70g |
| ERM-EB503A | Unused automobile cata | CRM | | 2780 | 1880 | | | | | | | | | | | 100g |
| ERM-EB504 | Used automobile catalys | CRM | | 279 | 1777 | 338 | | | | | | | | | | 250g |

*also has Mg at (6), Ni at (0.5) and Cd (mg/kg) at (44)

High purity silica 高纯硅

| 编号 | 描述 | 种类 | Al ₂ O ₃ | BaO | CaO | Fe ₂ O ₃ | K ₂ O | MgO | MnO | Na ₂ O | SiO ₂ | SrO | TiO ₂ | 规格 |
|-------------------|--------------------|-----|--------------------------------|---------|--------|--------------------------------|------------------|--------|---------|-------------------|------------------|---------|------------------|------|
| BAS-BCS-CRM 313/2 | High purity silica | CRM | 0.068 | 0.00067 | 0.0160 | 0.0229 | 0.0108 | 0.0037 | 0.00032 | 0.0058 | 99.73 | 0.00024 | 0.0243 | 100g |

Ceramics 陶瓷

| 编号 | 描述 | 种类 | Al ₂ O ₃ | Ba (ppm) | CaO | Co (ppm) | Cr (ppm) | Cu (ppm) | Fe (tot) | K ₂ O | MgO | MnO | Ni (ppm) | Sc (ppm) | SiO ₂ | 规格 |
|---------|---------|-----|--------------------------------|----------|------|----------|----------|----------|----------|------------------|------|-------|----------|----------|------------------|------|
| SARM 69 | Ceramic | CRM | 14.4 | 518 | 2.37 | 28 | 223 | 46 | 7.18 | 1.96 | 1.85 | 0.129 | 53 | 20 | 66.6 | 100g |
| 编号 | | | TiO ₂ | Zn (ppm) | | | | | | | | | | | | |
| SARM 69 | | | 0.777 | 68 | | | | | | | | | | | | |

Magnesite 菱镁矿

Magnesite 菱镁矿

| 编号 | 描述 | 种类 | Al ₂ O ₃ | B ₂ O ₃ | Ba (μg/g) | C (tot) | CO ₂ | CaO | Cr ₂ O ₃ | Cu (μg/g) | Fe ₂ O ₃ | K ₂ O | MgO | Mn ₃ O ₄ | MnO | 规格 |
|-------------------|----------------------|-----|--------------------------------|-------------------------------|-------------------------------|-----------------|-----------------|------------------|--------------------------------|-------------------------------|--------------------------------|------------------|-----------|--------------------------------|-------|-------|
| DH-SX42-09 | Magnesite | RM | 0.098 | | | 0.031 | 0.13 | 0.866 | 0.016 | | 0.515 | | 98.03 | 0.107 | | 100 g |
| BAS-BCS-CRM 389/1 | High Purity Magnesia | CRM | 0.104 | | | | | 0.88 | | | 0.607 | | 97.89 | | 0.1 | 100 g |
| BAS-BCS-CRM 319/1 | Magnesia | CRM | 0.109 | | (34) | | | 3.00 | 0.0035 | (11) | 0.291 | | 95.38 | | 0.108 | 100 g |
| CERAM-AN37 | Magnesite | RM | 1.06 | 0.11 | | | | 1.46 | 0.005 | | 1.8 | <0.01 | 94 | 0.12 | | 100 g |
| CERAM-AN36 | Magnesite | RM | 0.42 | 0.11 | | | | 0.94 | 0.004 | | 4.66 | <0.01 | 93.2 | 0.11 | | 100 g |
| DH-SX42-07 | Magnesite | RM | 2.39 | | | 0.539 | 0.54 | 2.23 | 0.036 | | 1.49 | 0.072 | 83.65 | 0.074 | | 100 g |
| ECRM-F 778-1 | High carbon magnesia | CRM | 0.56 | | | | | 1.23 | 0.15 | | 0.96 | | 81.02 | | 0.014 | 100 g |
| 编号 | | | Na ₂ O | Ni (μg/g) | P ₂ O ₅ | SO ₃ | Sr (μg/g) | SiO ₂ | TiO ₂ | V ₂ O ₅ | Y (μg/g) | ZnO | Zr (μg/g) | ZrO ₂ | | |
| DH-SX42-09 | | | | | 0.027 | 0.012 | | 0.222 | 0.007 | 0.003 | | 0.003 | | | | |
| BAS-BCS-CRM 389/1 | | | | | 0.0295 | | | 0.274 | 0.0052 | | | | | | | |
| BAS-BCS-CRM 319/1 | | | | (75) | | | (51) | 1.093 | 0.0070 | | (11) | | (6) | | | |
| CERAM-AN37 | | | <0.05 | | 0.016 | | | 1.39 | 0.03 | | | | | | | |
| CERAM-AN36 | | | <0.05 | | 0.008 | | | 0.48 | 0.01 | | | | | | | |
| DH-SX42-07 | | | 0.385 | | 0.087 | 0.037 | | 7.73 | 0.149 | | | | | 0.011 | | |
| ECRM-F 778-1 | | | | | (0.009) | | | 1.05 | (0.013) | | | | | | | |

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| 编号 | 描述 | 种类 | Al | Ba | C | Ca | Co | Cr | Cu | Fe | H2O | Mg | Mn | Mo | Ni | 规格 |
|-----------|-----------------|-----|--------|----------|----------|--------|-----------|---------|-----------|--------|--------|--------|---------|----------|---------|------|
| BAM-RS 6A | Magnesium oxide | CRM | 0.0045 | (<0.001) | (<0.005) | 0.0880 | (<0.0005) | 0.00092 | (<0.0006) | 0.0072 | 0.0110 | 60.190 | 0.00054 | (<0.001) | 0.00039 | 100g |
| BAM-RS 6B | Magnesium oxide | CRM | 0.0047 | (<0.002) | (<0.021) | 0.0830 | (<0.0005) | 0.00081 | (<0.0006) | 0.0071 | 0.0283 | 60.17 | 0.00052 | (<0.001) | 0.00033 | 100g |

| 编号 | Pb | Sr | Ti | V | Zn | Zr |
|-----------|-----------|---------|---------|---------|-----------|-----------|
| BAM-RS 6A | (<0.0005) | 0.0002 | 0.00013 | 0.00084 | (<0.0006) | (<0.002) |
| BAM-RS 6B | (<0.0005) | 0.00021 | 0.00012 | 0.00078 | (<0.0006) | (<0.0105) |

Magnesite continued 菱铁矿

| 编号 | 描述 | 种类 | Al | Al2O3 | B | B2O3 | Ba | C | C (tot) | CO2 | Ca | CaO | Ce | Co | Cr | 规格 |
|----------------|---------------------|-----|-------|--------|--------|-------|----------|-------|---------|-------|-------|-------|---------|--------|----------|------|
| DH-SX42-03 | Magnesite | RM | | 1.27 | | | | | 0.396 | 0.104 | | 1.29 | | | | 100g |
| DH-SX42-08 | Magnesite | RM | | 41.66 | | | | 0.353 | | 0.58 | | 2.06 | | | | 100g |
| CGL-USZ37-2003 | Magnesite (CGL 005) | CRM | | 0.04 | | | | | | 48.31 | | 1.69 | | | | 100g |
| UN MK | Magnesite | CRM | | 0.414 | | | | | | | | 0.581 | | | | 100g |
| SARM 43 | Magnesite | CRM | | (0.06) | | | (0.0025) | | | | | 0.89 | (0.002) | 0.0004 | (0.0195) | 100g |
| CERAM-AN43 | Magnesite | RM | | | | 0.005 | | | | | | | | | | 100g |
| ECRM-D 779-1 | Magnesite | CRM | 0.105 | | 0.0116 | | | | | | 1.691 | | | | (0.003) | 100g |

| 编号 | Cr2O3 | Cu | Fe | Fe2O3 | FeO | K | K2O | LOI | Mg | MgO | Mn | Mn3O4 | MnO |
|----------------|-------|----------|------|-------|-------|---------|--------|-------|---------|-------|-------|-------|-------|
| DH-SX42-03 | 0.119 | | | 2.75 | | | 0.019 | | | 76.81 | | 0.090 | |
| DH-SX42-08 | 0.04 | | | 1.49 | | | 0.037 | | | 47.83 | | 0.070 | |
| CGL-USZ37-2003 | | | | 0.05 | | | 0.011 | 51.35 | | 45.8 | | | |
| UN MK | | | | | | | 0.013 | | | 45.22 | | | 0.16 |
| SARM 43 | | (0.0015) | | 0.26 | (0.1) | | (0.04) | | | 44.11 | | | (0.1) |
| CERAM-AN43 | | | | | | | 0.06 | | | | | | |
| ECRM-D 779-1 | | | 3.73 | | | (0.002) | | | (54.57) | | 0.503 | | |

| 编号 | Na | Na2O | Ni | P | P2O5 | S | SO3 | Si | SiO2 | Sr | Ti | TiO2 | V2O5 |
|----------------|----------|--------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|-------|
| DH-SX42-03 | | 0.375 | | | 0.059 | | 0.070 | | 15.94 | | | 0.054 | |
| DH-SX42-08 | | | | | 0.077 | 0.007 | | | 5.09 | | | 0.066 | 0.001 |
| CGL-USZ37-2003 | | | | | | | | | 0.25 | | | | |
| UN MK | | 0.024 | | | 0.055 | | | | 0.593 | | | 0.019 | |
| SARM 43 | | (0.05) | 0.0252 | | (0.02) | | | | 5.99 | 0.0008 | | (0.01) | |
| CERAM-AN43 | | | | | | | | | | | 0.0081 | | |
| ECRM-D 779-1 | (0.0058) | | | 0.0267 | | | | 0.182 | | | | | |

| 编号 | Zn | ZnO | ZrO2 |
|----------------|----|-------|-------|
| DH-SX42-03 | | | |
| DH-SX42-08 | | 0.006 | 0.091 |
| CGL-USZ37-2003 | | | |

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| | |
|--------------|----------|
| UN MK | |
| SARM 43 | (0.0010) |
| CERAM-AN43 | |
| ECRM-D 779-1 | |

Chrome magnesite 铬镁矿

| 编号 | 描述 | 种类 | Al2O3 | CaO | Cr2O3 | Fe | Fe (tot) | FeO | Fe2O3 | MgO | MnO | P | S | SiO2 | TiO2 | V | 规格 |
|-------------|------------------|-----|-------|--------|-------|-------|----------|---------|-------|-------|------|----------|---------|-------|------|-------|------|
| SARM 9 | Chrome Magnesite | CRM | 15.17 | (0.16) | 46.45 | 19.41 | | (17.15) | | 10.85 | 0.21 | 0.0024 | 0.0028 | 0.61 | 0.56 | 0.32 | 100g |
| SARM 8 | Chrome Magnesite | CRM | 10.57 | 0.26 | 48.97 | 14.13 | | (13.9) | | 14.69 | 0.25 | 0.0039 | 0.0341 | 4.30 | 0.24 | 0.14 | 100g |
| VS-P27 | Chrome Magnesite | CRM | 7.08 | 1.04 | 50.1 | 9.66 | | 8.2 | | 18.7 | | 0.0021 | 0.018 | 6.88 | | | 100g |
| NCS DC25002 | Chrome Magnesite | CRM | 10.97 | 0.82 | 36.31 | 9.71 | | | | 20.59 | | (0.0072) | (0.017) | 11.71 | | | 100g |
| N 97 | Chrome Magnesite | CRM | 16.12 | 0.52 | 40.00 | | | | 14.73 | 21.26 | | | | 5.94 | | | 75g |
| VS-P14 | Chrome Magnesite | CRM | 6.43 | 0.126 | 42.8 | | 8.59 | 9.4 | | 23.7 | | 0.0012 | 0.043 | 10.7 | | 0.053 | 100g |
| N 96 | Chrome Magnesite | CRM | 12.92 | 1.59 | 22.37 | | | | 11.90 | 46.98 | | | | 2.71 | | | 75g |
| N 8-4-01 | Chrome Magnesite | CRM | 6.08 | 1.56 | 28.51 | | | | 11.58 | 48.0 | | | | 2.93 | | | 75g |
| VS-K5 | Chrome Magnesite | CRM | 4.28 | 1.15 | 22.6 | | | | 8.47 | 54.8 | | | | 8.64 | | | 100g |
| N 95 | Chrome Magnesite | CRM | 3.50 | 1.23 | 18.30 | | | | 6.77 | 63.93 | | | | 4.05 | | | 75g |
| N 8-4-02 | Chrome Magnesite | CRM | 2.21 | 2.45 | 5.56 | | | | 8.72 | 76.2 | | | | 2.93 | | | 75g |

Chrome magnesite continued 铬镁矿

| 编号 | 描述 | 种类 | Al2O3 | CaO | Co3O4 | Cr | Cr2O3 | CuO | Fe | Fe2O3 | HfO2 | K2O | Li2O | LOI | MgO | 规格 |
|-----------------|------------------|-----|-------|------|-------|-------|-------|------|-------|-------|-------|-------|------|---------|-------|------------|
| FLX-CRM111 | Chrome Magnesite | CRM | 4.66 | 2.07 | 0.012 | | 11.48 | | | 9.54 | <0.01 | 0.010 | | (0.58) | 70.20 | 80g |
| IGS-30 | Chrome Magnesite | CRM | | | | 23.95 | | | 11.21 | | | | | (16.62) | | 55g |
| CERAM AN100 | Chrome Magnesite | RM | 24.7 | 1.16 | | | 26.60 | 0.02 | | 12.88 | | 0.01 | | (5.03) | 22.38 | 25g / 100g |
| CERAM 2CAS5 | Chrome Magnesite | RM | 23.1 | 0.59 | | | 35.8 | | | 17.0 | | 0.06 | | 0.87 | 16.8 | 25g / 100g |
| BAS-BCS-CRM 369 | Chrome Magnesite | CRM | 14.7 | 1.17 | | | 17.2 | | | 10.3 | | 0.03 | 0.03 | | 53.5 | 100g |
| BAS-BCS-CRM 370 | Chrome Magnesite | CRM | 12.3 | 1.54 | | | 13.4 | | | 7.23 | | 0.03 | 0.03 | | 61.8 | 100g |

| 编号 | MnO | Mn3O4 | Na2O | NiO | P2O5 | SO3 | SiO2 | Ti | TiO2 | WO3 | ZnO | ZrO2 |
|-----------------|------|-------|------|-------|-------|--------|------|------|-------|-------|------|-------|
| FLX-CRM111 | | 0.370 | <0.1 | 0.031 | 0.088 | (0.13) | 1.40 | | 0.160 | <0.02 | | 0.057 |
| IGS-30 | | | | | | | | 0.14 | | | | |
| CERAM AN100 | | 0.13 | 0.04 | | | | 11.1 | | 0.21 | | 0.04 | |
| CERAM 2CAS5 | | 0.12 | 0.06 | | | | 5.41 | | 0.30 | | | |
| BAS-BCS-CRM 369 | 0.11 | | 0.05 | | | | 2.59 | | 0.14 | | | |
| BAS-BCS-CRM 370 | 0.11 | | 0.06 | | | | 3.01 | | 0.13 | | | |

| 编号 | 描述 | 种类 | Al2O3 | Au | B | CO2 | CaO | Co | Cr2O3 | FeO | Fe2O3 | Fe (tot)* | H2O- | H2O+ | K2O | 规格 |
|-----------------|------------------|-----|-------|----------|------|--------|--------|--------|-------|--------|-------|-----------|------|--------|---------|------|
| CGL-USZ36-2002 | Chrome Magnesite | CRM | 8.24 | 0.000003 | | 0.47 | 0.24 | 0.01 | 54.37 | | | 14.73 | 0.11 | | | 200g |
| BAS-BCS-CRM 396 | Chrome Magnesite | CRM | 5.73 | | 0.09 | | 1.12 | | 15.6 | | 10.9 | | | (0.03) | | 100g |
| NCS DC73013 | Chrome Magnesite | CRM | 10.53 | | | (0.14) | (0.13) | 0.016 | 57.80 | (8.3) | | 13.70 | | (0.59) | (0.004) | 50g |
| NCS DC73012 | Chrome Magnesite | CRM | 11.60 | | | (1.2) | 0.46 | 0.016 | 46.56 | (12.0) | | 15.34 | | 2.5 | (0.010) | 50g |
| NCS DC73011 | Chrome Magnesite | CRM | 11.37 | | | (0.46) | 0.32 | 0.014 | 34.44 | (8.5) | | 11.84 | | (6.4) | 0.026 | 50g |
| NCS DC73010 | Chrome Magnesite | CRM | 11.86 | | | (0.6) | 0.44 | 0.0124 | 17.59 | (8.68) | | 10.51 | | (10.7) | 0.046 | 50g |

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| 编号 | Li2O | LOI | MgO | Mn | MnO | Na2O | Ni | P | P2O5 | S | SO3 | SiO2 | Ti |
|-----------------|--------|------|-------|-------|------|---------|-------|----------|------|---------|------|-------|-------|
| CGL-USZ36-2002 | | 1.07 | 16.09 | | 0.15 | | 0.09 | | 0.02 | | 0.07 | 4.73 | |
| BAS-BCS-CRM 396 | (0.05) | | 64.6 | | 0.17 | (0.06) | | | | | | 1.37 | |
| NCS DC73013 | | | 16.45 | 0.097 | | (0.016) | 0.16 | (0.0012) | | (0.005) | | 1.10 | 0.122 |
| NCS DC73012 | | | 17.92 | 0.135 | | 0.018 | 0.134 | (0.0013) | | 0.076 | | 5.06 | 0.070 |
| NCS DC73011 | | | 23.32 | 0.090 | | 0.073 | 0.175 | 0.0020 | | 0.024 | | 12.24 | 0.100 |
| NCS DC73010 | | | 28.12 | 0.088 | | (0.13) | 0.188 | 0.0031 | | 0.037 | | 20.30 | 0.085 |

| 编号 | TiO2 | V | Zn |
|-----------------|------|-------|-------|
| CGL-USZ36-2002 | 0.11 | 0.04 | 0.023 |
| BAS-BCS-CRM 396 | 0.26 | | |
| NCS DC73013 | | 0.048 | |
| NCS DC73012 | | 0.064 | |
| NCS DC73011 | | 0.044 | |
| NCS DC73010 | | 0.043 | |



Microanalytical Reference Materials 微量分析标样

Mounted

| 编号 | 描述 | 种类 | Al | Al2O3 | As (ppm) | B | Ba | Be (ppm) | Ca | CaO | Ce | Cl | Co | Cr | Cs (ppm) | 规格 |
|------------|--------------|-----|------|-------|----------|------------|----------|----------|------|------|--------|----------|--------|--------|----------|------|
| UG-BCR-2G | Basalt glass | CRM | 7.14 | 13.5 | | | 0.0683 | | 5.09 | 7.12 | 0.0053 | | 0.0037 | 0.0018 | (1.1) | Each |
| UG-BHVO-2G | Basalt glass | CRM | 7.16 | 13.5 | | | 0.013 | | 8.17 | 11.4 | 0.0038 | | 0.0045 | 0.028 | | Each |
| UG-BIR-1G | Basalt glass | CRM | | 15.5 | (0.44) | (0.000033) | (0.0006) | (0.58) | | 13.3 | 0.0002 | (0.0026) | 0.0052 | 0.037 | | Each |

| 编号 | Cu | Dy (ppm) | Eu (ppm) | F | Fe (tot) | Fe2O3 | FeO | Ga | Gd | Hf | Ho | K | K2O |
|------------|----------|----------|----------|----------|----------|-------|------|----------|-----------|-----------|------------|------|------|
| UG-BCR-2G | (0.0019) | | 2 | (0.044) | 9.65 | 13.8 | | 0.0023 | 0.00068 | (0.00048) | (0.000133) | 1.49 | 1.79 |
| UG-BHVO-2G | 0.0127 | | | (0.037) | 8.63 | 12.3 | | 0.00217 | (0.00063) | 0.00041 | (0.000104) | 0.43 | 0.52 |
| UG-BIR-1G | 0.0125 | 4 | 0.55 | (0.0044) | 11.3 | 2.06 | 8.34 | (0.0016) | 0.0002 | 0.00006 | | | 0.03 |

| 编号 | La | Li | Lu | Mg | MgO | Mn | MnO | Mo | Na | Na2O | Nb | Nd | Ni |
|------------|----------|----------|------------|------|------|-------|-------|--------|------|------|-----------|---------|--------|
| UG-BCR-2G | 0.0025 | (0.0009) | (0.000051) | 2.16 | 3.59 | 0.152 | | 0.0248 | 2.34 | 3.16 | | 0.0028 | |
| UG-BHVO-2G | 0.0015 | (0.0005) | (0.000028) | 4.36 | 7.23 | 0.129 | | | 1.64 | 2.22 | (0.0018) | 0.0025 | 0.0119 |
| UG-BIR-1G | 0.000063 | 0.00036 | (0.00003) | | 9.7 | | 0.175 | | | 1.82 | (0.00006) | 0.00025 | 0.017 |

| 编号 | P | P2O5 | Pb | Pr | Rb | Sb (ppm) | Sc | Si | SiO2 | Sm | Sn | Sr | Ta |
|------------|------|------|----------|-----------|---------|----------|--------|------|------|-----------|-----------|--------|-----------|
| UG-BCR-2G | 0.15 | 0.35 | (0.0011) | (0.00068) | 0.0048 | | 0.0033 | 25.3 | 54.1 | (0.00067) | | 0.0346 | |
| UG-BHVO-2G | 0.12 | 0.27 | | | 0.00098 | | 0.0032 | 23.3 | 49.9 | (0.00062) | (0.00019) | 0.0389 | (0.00014) |

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|------------|------------|-----------|-----------|-------------|-----------------|----------------|----------|-----------|-----------|-----------|-----------|
| UG-BIR-1G | 0.021 | (0.0003) | | (0.58) | 0.0044 | | 47.96 | (0.00011) | | 0.011 | |
| 编号 | Tb | Th | Ti | TiO2 | Tm (ppm) | U (ppm) | V | Y | Yb | Zn | Zr |
| UG-BCR-2G | (0.000107) | 0.00062 | 1.35 | 2.26 | (0.54) | 1.69 | 0.0416 | 0.0037 | 0.00035 | 0.0127 | 0.0188 |
| UG-BHVO-2G | (0.00009) | (0.00012) | 1.63 | 2.73 | | | 0.0317 | 0.0026 | (0.002) | 0.0103 | 0.0172 |
| UG-BIR-1G | | | | 0.96 | | | 0.031 | 0.0016 | 0.00017 | 0.007 | 0.0018 |

Accessories for laser ablation

| 编号 | 描述 | 规格 |
|------------|---|------|
| UG-CM-V1 | Cetac Laser Ablation system sample mount | Each |
| UG-NWM-V1 | New Wave Laser Ablation system sample mount | Each |
| UG-RMKIT-1 | MRM Starter Kit | set |
| UG-SH-V1 | Sample holder for epoxy mounts | Each |



Ores 矿石

Antimony ore 锑矿石

| 编号 | 描述 | 种类 | Al | Al2O3 | As | C | Ca | CaO | Cu | F | Fe | Fe (tot)* | H2O | K | K2O | 规格 |
|-------------|--------------|-----|-------|-------|-------|-------|-------|---------|---------|-------|-------|-----------|-------|-------|------|------|
| CAN CD-1 | Antimony Ore | CRM | (5.5) | | 0.66 | (0.2) | (1.4) | | (<0.01) | | (2.8) | | (0.2) | (1.8) | | 200g |
| NCS DC70012 | Antimony Ore | CRM | | 9.69 | | | | 0.18 | | 0.064 | | 2.91 | | | 2.70 | 100g |
| NCS DC70013 | Antimony Ore | CRM | | | | | | | 0.12 | | | | | | | 100g |
| 编号 | | | LOI | Mg | MnO | Na | Na2O | P | Pb | S | Sb | Si | SiO2 | TiO2 | | |
| CAN CD-1 | | | (4.0) | (0.6) | | (0.1) | | | (0.02) | (3.1) | 3.57 | (32.9) | | | | |
| NCS DC70012 | | | | 0.75 | 0.046 | | 0.08 | (0.035) | | 2.25 | 6.26 | | 71.03 | 0.44 | | |
| NCS DC70013 | | | | | | | | | 0.037 | 1.02 | 1.81 | | | | | |

Arsenic ore 砷矿石

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| 编号 | 描述 | 种类 | Ag | As | Bi | Cd | Co | Cu | Ga | Li | Ni | Pb | S | Sb | Se | 规格 |
|-------------|-------------|-----|---------|----------|---------|---------|---------|---------|---------|---------|---------|-------|------|-------|---------|-----|
| NCS DC70011 | Arsenic Ore | CRM | 0.00020 | 5.35 | 0.00054 | 0.00026 | 0.00074 | 0.00974 | 0.00029 | 0.00118 | 0.00250 | 0.010 | 2.81 | 0.016 | 0.00143 | 50g |
| 编号 | | | Sn | Te | Zn | | | | | | | | | | | |
| NCS DC70011 | | | 0.00020 | 0.000031 | 0.023 | | | | | | | | | | | |

Borate ore 硼矿石

| 编号 | 描述 | 种类 | Al2O3 | B2O3 | BaO | CaO | F | Fe2O3 | H2O | K2O | MgO | MnO | Na2O | SO3 | SiO2 | 规格 |
|-----------|------------|-----|--------|--------|--------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-----|
| NIST-1835 | Borate Ore | CRM | 3.474 | 18.739 | 0.0497 | 21.622 | 0.348 | 1.141 | 25.724 | 1.261 | 3.411 | 0.0333 | 3.484 | 1.477 | 18.408 | 60g |
| 编号 | | | SrO | TiO2 | | | | | | | | | | | | |
| NIST-1835 | | | 0.9418 | 0.1332 | | | | | | | | | | | | |

Chrome ore 铬矿石

| 编号 | 描述 | 种类 | Al2O3 | As | Au (ppm) | C | CO2 | CaO | Co | Cr | Cr (sol.) | Cr2O3 | Cu | Fe | Fe2O3 | 规格 |
|----------------|------------------------|-----|------------|----------|----------|--------|---------|------|--------|----------|-----------|----------|----------|----------|----------|-------|
| CGL-USZ36-2002 | Chromium ore (CGL 119) | CRM | 8.24 | | 0.03 | | 0.47 | 0.24 | 0.01 | | | 54.37 | | | 14.73 | 200 g |
| IGS-30 | Chromite | CRM | | | | | | | | 23.95 | | | | 11.21 | | 55 g |
| CRPG-CHR-BKG | Chromitite | CRM | 12.91 | | 0.028 | | | 0.07 | 0.0167 | 19.80 | | 29.05 | 0.0052 | | | 30 g |
| CRPG-CHR-PT+ | Chromitite | CRM | 7.43 | 0.0436 | 4.3 | | | 0.23 | 0.0177 | 13.91 | | 20.33 | 0.0380 | | | 30 g |
| NCS HC26617 | Chromium Ore | CRM | | (0.0001) | | 0.006 | | | | | 1.34 | 96.19 | | | 0.054 | 20g |
| 编号 | | | Fe2O3(tot) | H2O- | Ir (ppm) | LOI | MgO | MnO | Ni | Os (ppm) | P2O5 | Pd (ppm) | Pt (ppm) | Rh (ppm) | Ru (ppm) | |
| CGL-USZ36-2002 | | | | 0.11 | | 1.07 | 16.09 | 0.15 | 0.09 | | 0.02 | | | | | |
| IGS-30 | | | | | | | (16.62) | | | | | | | | | |
| CRPG-CHR-BKG | | | 13.87 | | 0.000002 | (5.25) | 23.47 | 0.14 | 0.2006 | 0.02 | | 0.07 | 0.05 | 0.009 | 0.067 | |
| CRPG-CHR-PT+ | | | 13.41 | | 0.00062 | (9.08) | 27.97 | 0.15 | 0.5862 | 1.9 | | 80.8 | 58 | 4.7 | 9.2 | |
| NCS HC26617 | | | | | | | | | | | | | | | | |
| 编号 | | | SO3 | S | SiO2 | Ti | TiO2 | V | Zn | | | | | | | |
| CGL-USZ36-2002 | | | 0.07 | | 4.73 | | 0.11 | 0.04 | 0.023 | | | | | | | |
| IGS-30 | | | | | | 0.14 | | | | | | | | | | |
| CRPG-CHR-BKG | | | | | 15.27 | | 0.14 | | 0.0205 | | | | | | | |
| CRPG-CHR-PT+ | | | | | 21.75 | | 0.07 | | 0.0192 | | | | | | | |
| NCS HC26617 | | | | 0.002 | 0.26 | | | | | | | | | | | |

Copper ore 铜矿石

| 编号 | 描述 | 种类 | Ag | As | Au | Bi | Cd | Cu | F | Fe | MgO | Mn | Ni | Pb | S | 规格 |
|-------------|--------------------|-----|---------|-------|----------|-------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-----|
| NCS DC28054 | Copper ore | CRM | 0.01261 | 0.209 | 0.000005 | 0.283 | 0.0021 | 6.78 | 1.15 | 15.39 | 12.51 | 0.124 | <0.005 | 0.106 | 0.082 | 50g |
| NCS DC28055 | Copper ore | CRM | 0.00859 | 4.68 | 0.000004 | 0.023 | 0.0067 | 12.79 | 0.028 | 3.22 | 0.18 | 0.110 | 0.017 | 0.037 | 1.54 | 50g |
| NCS DC28056 | Copper ore | CRM | 0.01099 | 2.14 | 0.000005 | 0.19 | 0.0064 | 8.46 | 0.53 | 10.44 | 7.04 | 0.169 | 0.011 | 0.087 | 0.86 | 50g |
| NCS DC28057 | Copper concentrate | CRM | 0.00120 | 0.034 | 0.000616 | | <0.001 | 10.71 | 0.036 | 29.34 | 4.01 | 0.084 | 0.072 | 0.019 | 25.05 | 20g |
| NCS DC28058 | Copper concentrate | CRM | 0.00171 | 0.012 | 0.000468 | | <0.001 | 20.56 | 0.056 | 24.70 | 7.63 | 0.013 | 0.093 | 0.015 | 22.87 | 20g |
| NCS DC28059 | Copper concentrate | CRM | 0.00148 | 0.020 | 0.000510 | | <0.001 | 16.60 | 0.052 | 26.39 | 5.81 | 0.044 | 0.082 | 0.017 | 23.92 | 20g |
| 编号 | | | Sb | Zn | | | | | | | | | | | | |

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| | |
|-------------|------------|
| NCS DC28054 | 0.456 |
| NCS DC28055 | 0.25 0.64 |
| NCS DC28056 | 0.22 0.503 |
| NCS DC28057 | 0.052 |
| NCS DC28058 | 0.194 |
| NCS DC28059 | 0.131 |

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | Au | Bi | CaO | Cd | Cu | Fe | FeO | (tot)* | H2O- | 规格 |
|-------------|------------------------|-----|---------|--------|---------|----------|--------|---------|----------|-------|------|------|---------|--------|------|
| IM MR1 | Copper ore | CRM | 0.0058 | (4.7) | 0.028 | | | (3.8) | | 1.23 | 1.41 | | | | 200g |
| IM MR2 | Copper ore | CRM | 0.0029 | (4.9) | 0.013 | | | (25) | | 1.61 | 0.88 | | | | 200g |
| NCS DC29107 | Copper ore | CRM | 0.00061 | (5.86) | 0.00414 | | | (27.25) | | 0.29 | | | (7.36) | (0.22) | 50g |
| NCS DC29108 | Copper ore | CRM | 0.00149 | (4.57) | 0.00766 | | | (28.88) | | 0.90 | | | (21.21) | (0.05) | 50g |
| NCS DC29109 | Copper ore | CRM | 0.00599 | (3.83) | 0.046 | | | (20.66) | 0.000568 | 3.84 | | | (24.33) | (0.45) | 50g |
| CGL-USZ6-88 | Copper conc. (CGL 203) | CRM | 0.0066 | | | | | | | 32.0 | | 19.8 | | | 100g |
| VS-P34 | Copper concentrate | CRM | 0.0083 | | 0.36 | 0.00048 | 0.0062 | | | 17.66 | 33.5 | | | | 100g |
| VS-P35 | Copper concentrate | CRM | 0.00174 | | 0.067 | 0.000123 | | | | 1.65 | | | | | 100g |

| 编号 | H2O+ | Hg | K2O | LOI | MgO | MnO | Mo | Na2O | P2O5 | Pb | S | Sb |
|-------------|--------|-------------|--------|--------|--------|---------|--------|--------|---------|---------|--------|---------|
| IM MR1 | | | | | (9.6) | | | | | 0.15 | | |
| IM MR2 | | | | | (8.2) | | | | | 0.085 | | |
| NCS DC29107 | (0.92) | (0.000015) | (1.65) | (5.85) | (1.58) | (0.360) | | (0.44) | (0.070) | 0.00345 | (0.68) | 0.00234 |
| NCS DC29108 | (0.87) | (0.0000028) | (0.45) | (3.55) | (1.73) | (0.399) | | (0.06) | (0.046) | 0.0080 | (1.65) | 0.00117 |
| NCS DC29109 | (1.13) | (0.0000043) | (0.48) | (5.62) | (1.76) | (0.485) | | (0.01) | (0.094) | 0.024 | (8.58) | 0.0071 |
| CGL-USZ6-88 | | | | | | | 0.14 | | | 0.014 | 33.94 | (0.04) |
| VS-P34 | | | | | | | 0.0098 | | | 0.18 | 39.3 | 0.069 |
| VS-P35 | | | | | | | | | | 0.036 | 26.7 | |

| 编号 | Se | SiO2 | Te | TiO2 | Zn | Zr |
|-------------|--------|---------|--------|---------|-------|---------|
| IM MR1 | | (60) | | | 0.040 | |
| IM MR2 | | (22) | | | 0.025 | |
| NCS DC29107 | | (46.48) | | (0.318) | 0.010 | |
| NCS DC29108 | | (36.18) | | (0.18) | 0.020 | |
| NCS DC29109 | | (32.76) | | (0.21) | 0.083 | |
| CGL-USZ6-88 | 0.0077 | (6) | 0.0008 | | 0.15 | (0.004) |
| VS-P34 | | 1.95 | | | 2.48 | |
| VS-P35 | | 35.2 | | | 0.74 | |

Copper ore continued 铜矿石

| 编号 | 描述 | 种类 | Ag | Al | Al2O3 | As | Au | Ba | Be | Bi | C | Ca | CaO | Cd | Ce | 规格 |
|-------------|--------------------------|-----|-----------|--------|-------|-----------|-------------|-----------|-----------|-----------|------------|---------|------|-----------|-----------|------|
| GSJ-JCU-1 | Cu mineral | CRM | | | 0.29 | (0.0173) | | (0.00035) | | | (3.06 tot) | | 23.5 | (0.00036) | | 100g |
| NIST-331A | Copper ore mill tailings | CRM | | (7.92) | | | (0.0000121) | 0.0259 | | | (0.0565) | (1.552) | | (0.00001) | (0.00096) | 40g |
| CGL-USZ3-85 | Cu-Mo ore (CGL 103) | CRM | 0.00025 | | 16.35 | 0.0189 | | 0.0893 | (0.00022) | | | | 0.29 | | 0.0045 | 100g |
| CGL-USZ4-85 | Tailings of Cu-Mo ore | CRM | (0.00011) | | | (0.00470) | | | (0.00045) | (0.00217) | | | | | | 100g |

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CAN-CCU-1D Copper concentrate CRM 0.01207 0.191 (0.0545) 0.001401 (0.001241) (0.0003) (0.088) 0.195 0.02459 (0.0002) 200g

| 编号 | Cl | Co | Cr | Cs | Cu | Eu | F | Fe | Fe (tot)* | Ga | H2O | H2O- | H2O+ |
|-------------|----------|-----------|-----------|------------|--------|------------|----------|------------|-----------|-----------|--------|--------|--------|
| GSJ-JCU-1 | | (0.0324) | (0.0010) | | 3.73 | | | | 17.5 | | | (0.54) | (1.00) |
| NIST-331A | | 0.00126 | 0.00139 | (0.0001) | 0.0789 | | | (4.207) | | (0.00163) | | | |
| CGL-USZ3-85 | | 0.0013 | 0.0021 | 0.00023 | 0.817 | (0.000077) | | 3.95 (tot) | | (0.0032) | | | |
| CGL-USZ4-85 | | (0.00120) | (0.00220) | | 0.115 | | | | 3.9 | | | | |
| CAN-CCU-1D | (0.0060) | 0.0330 | (0.0006) | (0.000008) | 23.95 | | (0.0200) | 29.26 | | | (2.03) | | |

| 编号 | Hf | Hg | In | K | K2O | La | Li | LOI | Lu | Mg | MgO | Mn | MnO |
|-------------|-----------|-------------|----------|----------|--------|-----------|-----------|---------|------------|---------|------|---------|-------|
| GSJ-JCU-1 | | | | | 0.015 | | (0.00029) | (15.37) | | | 2.13 | | 0.59 |
| NIST-331A | | 0.000000184 | | (0.967) | | (0.0004) | (0.0003) | | | (1.623) | | 0.0497 | |
| CGL-USZ3-85 | (0.00035) | | | | 3.68 | (0.00205) | (0.00062) | 4.13 | (0.000019) | | 0.71 | | 0.020 |
| CGL-USZ4-85 | | | | | (3.38) | | | (4.26) | | | | | |
| CAN-CCU-1D | | (0.00070) | (0.0007) | (0.0316) | | (0.0003) | | (19.51) | | 0.508 | | 0.00994 | |

| 编号 | Mo | Na | Na2O | Nb | Nd | Ni | P | P2O5 | Pb | Rb | Re | S | S (tot) |
|-------------|-----------|--------|--------|-----------|-----------|-----------|----------|----------|-----------|-----------|-----------|----------|---------|
| GSJ-JCU-1 | | | 0.052 | | | (0.0425) | | (<0.005) | (0.0004) | (0.00019) | | | (7.00) |
| NIST-331A | (0.00032) | (3.15) | | | | (0.00081) | (0.0550) | | (0.0006) | (0.0025) | | (0.0870) | |
| CGL-USZ3-85 | 0.017 | | 1.59 | (0.00133) | (0.00226) | (0.0024) | | (0.15) | (0.0108) | 0.0081 | (0.00014) | | 2.09 |
| CGL-USZ4-85 | 0.007 | | (1.74) | | | (0.00165) | | (0.15) | (0.00510) | (0.00800) | | | 2.03 |
| CAN-CCU-1D | (0.00181) | | | | | (0.00076) | | | 0.262 | | | 32.76 | |

| 编号 | Sb | Sc | Se | SiO2 | Sm | Sn | Sr | Tb | Te | Th | Ti | TiO2 | Tl |
|-------------|-----------|-----------|-----------|---------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-------|------------|
| GSJ-JCU-1 | (0.00038) | | | (28.68) | | | (0.0075) | | | | | 0.013 | |
| NIST-331A | | (0.00114) | | | | | 0.02528 | | | | (0.228) | | |
| CGL-USZ3-85 | 0.0024 | (0.00055) | (0.00063) | 67.02 | (0.00031) | (0.00039) | 0.0172 | (0.000077) | (0.00078) | (0.00033) | | 0.47 | |
| CGL-USZ4-85 | | | (0.00054) | | | | | | (0.00068) | | | | |
| CAN-CCU-1D | 0.00619 | | (0.0244) | 3.036 | | | (0.00049) | | (0.00367) | | (0.00660) | | (0.000263) |

| 编号 | U | V | W | Y | Yb | Zn | Zr |
|-------------|-----------|----------|-----------|----------|-----------|-----------|-----------|
| GSJ-JCU-1 | | (0.0009) | | | | 0.0679 | |
| NIST-331A | | (0.0121) | | (0.0008) | | 0.00718 | |
| CGL-USZ3-85 | (0.00058) | (0.0058) | (0.0030) | | (0.00012) | 0.0097 | (0.0131) |
| CGL-USZ4-85 | | | (0.00160) | | | (0.00680) | (0.01490) |
| CAN-CCU-1D | | | | | | 2.63 | |

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| 编号 | 描述 | 种类 | Ag | As | Au (µg/g) | S | Sb | C (tot) | C (inorg) | S (Sulfate) | S (Sulfide) | 规格 |
|----------------|---------------------------|-----|------------|------|-----------|-------|--------|---------|-----------|-------------|-------------|-------------|
| CAN-MA-1B | Gold ore | CRM | (0.0004) | | 17.0 | | | | | | | 200g |
| CAN-MA-2C | Gold ore | CRM | (0.000051) | | 3.02 | | | | | | | 400g |
| CAN-MA-3A | Gold ore | CRM | (0.00024) | | 8.56 | | | | | | | 200g |
| NCS DC93006 | Gold ore | CRM | 0.0000434 | | 0.572 | | | | | | | 1 kg |
| NCS DC93007 | Gold ore | CRM | 0.0000262 | | 0.373 | | | | | | | 750g |
| NCS DC93008 | Gold ore | CRM | 0.0000631 | | 0.209 | | | | | | | 500g |
| NCS DC93009 | Gold ore | CRM | 0.0000078 | | 0.025 | | | | | | | 500g |
| SARM 53 | Gold ore | CRM | | | 3.99 | | | | | | | 500g / 2 kg |
| NIST-886 | Refractory gold ore | CRM | | | 8.25 | 1.466 | | (5.7) | (5.4) | (0.7) | (0.8) | 200g |
| CGL-USZ21-98 | Gold ore (CGL 110) | CRM | | | 1.06 | | | | | | | 250g |
| CGL-USZ23-98 | Gold ore (CGL 205) | CRM | 0.002148 | | 10.72 | | | | | | | 250g |
| CGL-USZ29-2000 | Gold ore (CGL 114) | CRM | 0.000605 | | 42.26 | | | | | | | 200g |
| CGL-USZ30-2000 | Gold ore (CGL 115) | CRM | 0.000118 | | 5.92 | | | | | | | 250g |
| CGL-USZ31-2000 | Gold ore (CGL 116) | CRM | 0.000107 | | 3.28 | | | | | | | 250g |
| CGL-USZ35-2002 | Epithermal gold (CGL 118) | CRM | 0.000125 | | 0.57 | | | | | | | 250g |
| CGL-USZ39-2005 | Gold ore (CGL 121) | CRM | 0.004933 | | 10.92 | | | | | | | 100g / 250g |
| CGL-USZ40-2005 | Gold ore (CGL 122) | CRM | 0.002706 | | 7.38 | | | | | | | 100g / 250g |
| VS-2739-83 | Float conc. of gold ore | CRM | 0.00057 | 8.0 | 34 | 26.0 | 0.020 | | | | | 100g |
| VS-2740-83 | Gold ore tailings | CRM | 0.000031 | 0.17 | 0.9 | 0.38 | 0.0019 | | | | | 100g |

| 编号 | 描述 | 种类 | Ag | Al | As | Au (µg/g) | Ba | Be | Bi | C | Ca | Cd | Ce | Co | Cr | 规格 |
|------------|----------|-----|------------|------|---------|-----------|----------|-------------|-----------|---------|---------|------------|----------|---------|----------|------|
| CAN-CH-4 | Gold ore | CRM | 0.00021 | 7.73 | 0.00088 | 0.88 | (0.0425) | | | 0.12 | 1.96 | 0.000114 | | 0.0026 | 0.0114 | 200g |
| CAN-DS-1 | Gold ore | CRM | 0.000047 | 4.48 | 0.6960 | 32.59 | 0.0221 | (0.0000819) | (0.00001) | (3.126) | (6.248) | (0.000098) | (0.0040) | 0.00095 | (0.0059) | 400g |
| CAN-GTS-2A | Gold ore | CRM | (0.000064) | 6.96 | 0.0124 | 0.272 | 0.0186 | | | 2.011 | 4.01 | (0.000058) | | 0.00221 | (0.0270) | 350g |

| 编号 | Cs | Cu | Eu | Fe | Ga | Hf | Hg | In | K | La | Li | LOD | LOI |
|------------|----------|---------|----------|-------|----------|----------|---------|-----------|-------|----------|----------|-------|--------|
| CAN-CH-4 | | 0.20 | | 5.42 | | | | | 1.81 | | | | (0.9) |
| CAN-DS-1 | (0.0007) | 0.00271 | (0.0001) | (3.0) | (0.0010) | (0.0004) | 0.00820 | (0.00005) | (1.1) | (0.0020) | (0.0020) | (0.5) | (13) |
| CAN-GTS-2A | | 0.00886 | | 7.56 | | | | | 2.021 | | | | (9.87) |

| 编号 | Mg | Mn | Na | Ni | P | Pb | S | Sb | Se | Si | SiO2 | Sr | Th |
|------------|-------|--------|-------|---------|--------|---------|---------|------------|---------|---------|-------|----------|-----------|
| CAN-CH-4 | 1.43 | 0.043 | 3.26 | 0.0051 | 0.061 | | 0.63 | 0.77 | 0.00021 | | 63.10 | (0.0209) | |
| CAN-DS-1 | 2.76 | 0.0437 | | 0.00487 | 0.0340 | 0.00138 | (2.609) | (0.0107) | | (25.68) | | | |
| CAN-GTS-2A | 2.412 | 0.1510 | 0.617 | 0.00771 | 0.0892 | | 0.348 | (0.000133) | | 23.65 | | 0.00928 | 0.0001244 |

| 编号 | Ti | Tl | V | Zn |
|------------|-----------|---------|-----------|--------|
| CAN-CH-4 | 0.31 | | | 0.020 |
| CAN-DS-1 | | 0.00200 | (0.01471) | 0.0206 |
| CAN-GTS-2A | (0.00005) | | | 0.0208 |

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Gold ore continued 金矿石

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | Au (µg/g) | Ba | BaO | CaO | Co | Cr | Cu | Fe2O3 | Fe (tot)* | Ga | 规格 |
|----------------|-----------------------|-----|----------|---------|---------|-----------|--------|-------|--------|---------|---------|----------|-------|-----------|---------|-------------|
| NCS DC29101 | Gold ore | CRM | | (16.70) | | 0.64 | | | (0.98) | | | | | (3.05) | | 500g |
| NCS DC29102 | Gold ore | CRM | 0.00374 | (5.53) | | 4.30 | | | (1.61) | | | 0.30 | | (5.50) | | 500g |
| NCS DC29103 | Gold ore | CRM | 0.00180 | (9.21) | | 20.0 | | | (2.82) | | | 0.12 | | (6.36) | | 500g |
| UN AUM | Gold ore | CRM | | 14.06 | 0.08765 | 2.5 | | 0.066 | 4.09 | | 0.0047 | 0.00359 | 5.55 | | 0.00129 | 200g |
| US DGPM-1 | Disseminated Gold ore | CRM | | 9.56 | 0.0180 | 0.730 | | | (0.22) | | | | 1.92 | | | 200g |
| CGL-USZ20-98 | Gold ore | CRM | 0.000305 | 1.70 | | 10.05 | | | 0.77 | | | | 1.92 | | | 250g |
| CGL-USZ34-2002 | Gold ore | CRM | 0.000170 | 4.79 | 0.12 | 0.79 | | | 2.53 | | | 0.001484 | | 2.18 | | 250g |
| CGL-USZ38-2005 | Gold ore | CRM | | 2.03 | | 31.28 | 0.02 | | 0.56 | | | 0.43 | 14.71 | | | 250g |
| CGL-USZ41-2006 | Gold ore | CRM | | 14.58 | | 0.91 | 0.0249 | | 3.14 | 0.00243 | 0.00993 | 0.75 | | | | 100g / 250g |

| 编号 | H2O- | H2O+ | K2O | LOI | MgO | MnO | Mo | Na2O | Ni | P2O5 | Pb | S | SO3 |
|----------------|--------|--------|--------|--------|--------|---------|---------|---------|----------|---------|--------|--------|------|
| NCS DC29101 | (0.08) | (0.49) | (0.28) | (1.91) | (0.06) | (0.015) | | (10.12) | | (0.099) | | (1.88) | |
| NCS DC29102 | (0.10) | (0.45) | (1.68) | (3.86) | (1.32) | (0.098) | | (1.04) | | (0.058) | 1.61 | (2.35) | |
| NCS DC29103 | (0.03) | (0.52) | (2.79) | (4.80) | (2.10) | (0.142) | | (1.58) | | (0.088) | 0.61 | (1.57) | |
| UN AUM | | | 1.92 | | 1.81 | 0.082 | | 3.08 | | | | | |
| US DGPM-1 | | | 2.74 | | (0.56) | | | | | | | | |
| CGL-USZ20-98 | | | 0.37 | 0.95 | | 0.025 | | 0.07 | | 0.037 | | | |
| CGL-USZ34-2002 | 0.10 | | 1.48 | 2.84 | 0.37 | 0.017 | | 0.055 | | 0.125 | 0.002 | | |
| CGL-USZ38-2005 | | | 0.64 | 2.59 | 1.01 | 0.03 | 0.11 | 0.17 | 0.002827 | 0.05 | | | |
| CGL-USZ41-2006 | | | 2.81 | 5.43 | 5.52 | 0.12 | 0.00518 | 2.36 | 0.00254 | 0.27 | 0.0027 | | 3.87 |

| 编号 | Sb | SiO2 | Sr | TiO2 | V | W | Y | Zn | Zr |
|----------------|--------|---------|----------|--------|----------|----------|---------|----------|---------|
| NCS DC29101 | | (64.42) | | (0.72) | | | | | |
| NCS DC29102 | | (76.87) | | (0.28) | | | | 0.22 | |
| NCS DC29103 | | (68.60) | | (0.40) | | | | 0.10 | |
| UN AUM | | 66.15 | 0.01877 | 0.39 | 0.00964 | | 0.00142 | | 0.00810 |
| US DGPM-1 | 0.0014 | 79.82 | | | | (0.0076) | | | |
| CGL-USZ20-98 | | 92.57 | | 0.08 | | | | | |
| CGL-USZ34-2002 | 0.14 | 84.70 | | 0.17 | | | | 0.0025 | |
| CGL-USZ38-2005 | | 77.37 | 0.008871 | 0.15 | 0.003933 | 0.01 | | 0.006529 | |
| CGL-USZ41-2006 | | 52.09 | 0.0259 | 0.93 | 0.0335 | | | 0.0136 | 0.00783 |

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Iron ore 铁矿石

| 编号 | 描述 | 种类 | Al | Al2O3 | As | Ca | CaO | Co | Cr | Cr2O3 | Cu | Fe | FeO | H2O+ | K | 规格 |
|--------------|-----------------------|-----|------|-------|--------|-------|-------|--------|-------|-------|--------|-------|---------|--------|-------|------|
| IMZ-267 | Iron ore | CRM | | 4.05 | | | 4.73 | | | | | 19.75 | | | | 100g |
| NCS DC73001 | Iron ore | CRM | | 3.57 | | | 2.84 | | | | 0.0028 | 20.17 | (7.5) | (1.18) | | 50g |
| ECRM-B 651-1 | Lincolnshire iron ore | CRM | 2.25 | | | 16.15 | | | | | | 23.85 | | | 0.27 | 100g |
| ECRM-F 679-1 | Iron ore | CRM | 1.99 | | | 18.07 | | | 0.012 | | | 24.20 | | | 0.157 | 100g |
| IMZ-266 | Iron ore | CRM | | 3.13 | | | 3.42 | | | | | 29.04 | | | | 100g |
| NCS DC73002 | Iron ore | CRM | | 3.43 | | | 2.17 | | | | 0.0023 | 30.34 | 5.8 | (2.08) | | 50g |
| ECRM-F 607-1 | Iron ore | CRM | 2.48 | | | 13.74 | | | | | | 30.89 | | | | 100g |
| ECRM-D 627-2 | Minette CaO-rich | CRM | | 4.49 | 0.020 | | 15.67 | | 0.018 | | | 31.77 | | | | 100g |
| VS-P24/1 | Iron ore | CRM | | | | | 2.25 | | | | | 33.96 | | | | 125g |
| NCS DC11013 | Iron ore | CRM | | 0.74 | 0.0003 | | 0.99 | | | | 0.0031 | 34.07 | 20.15 | | | 70g |
| VS-P20/2 | Iron ore | CRM | | 0.64 | | | 2.44 | | | | | 34.7 | | | | 100g |
| ECRM-F 601-1 | Iron ore | CRM | 2.33 | | | 4.05 | | | | | | 36.76 | | | | 100g |
| IMZ-265 | Iron ore | CRM | | 3.10 | | | 1.50 | | | | | 37.74 | | | | 100g |
| NCS DC14012A | Iron ore | CRM | | 3.29 | | | 7.63 | | | | 0.089 | 37.79 | (18.53) | | | 100g |
| VS-P8/3 | Iron ore | CRM | | 10.35 | | | 0.89 | (0.06) | | 2.53 | | 38.2 | | | | 75g |

| 编号 | K2O | Mg | MgO | Mn | MnO | Na | Na2O | NiO | P | Pb | S | Si | SiO2 |
|--------------|-------|------|------|--------|-------|-------|-------|------|-------|-------|-------|------|-------|
| IMZ-267 | | | 1.22 | (0.16) | 0.16 | | | | 0.030 | | 0.17 | | 53.72 |
| NCS DC73001 | 0.53 | | 1.68 | 0.168 | | | 0.28 | | 0.045 | | 0.051 | | 60.86 |
| ECRM-B 651-1 | | 1.04 | | 0.97 | | 0.05 | | | 0.35 | | 0.40 | 3.46 | |
| ECRM-F 679-1 | | 0.70 | | 0.295 | | 0.054 | | | 0.557 | | 0.099 | 3.43 | |
| IMZ-266 | | | 0.95 | | 0.078 | | | | 0.030 | | 0.10 | | 44.94 |
| NCS DC73002 | 0.85 | | 1.41 | 0.200 | | | 0.18 | | 0.094 | | 0.066 | | 43.68 |
| ECRM-F 607-1 | | 0.77 | | 0.254 | | | | | 0.529 | | 0.050 | 3.07 | |
| ECRM-D 627-2 | | | 1.57 | 0.250 | | | | | 0.661 | | 0.114 | | 9.24 |
| VS-P24/1 | | | 8.28 | | | | | | | | | | 4.94 |
| NCS DC11013 | 0.165 | | 2.86 | | 0.093 | | 0.065 | | 0.054 | 0.028 | 0.118 | | 48.27 |
| VS-P20/2 | | | 3.34 | | | | | | | | | | 38.0 |
| ECRM-F 601-1 | | 1.21 | | 0.370 | | | | | 0.590 | | 0.065 | 8.95 | |
| IMZ-265 | | | 0.53 | 0.056 | | | | | 0.039 | | 0.047 | | 37.02 |
| NCS DC14012A | 0.72 | | 3.62 | 0.15 | | | 0.54 | | 0.078 | | 0.601 | | 16.54 |
| VS-P8/3 | | | 2.17 | | 0.432 | | | 0.67 | 0.165 | | 0.031 | | 16.57 |

| 编号 | Ti | TiO2 | Zn |
|--------------|-------|------|-------|
| IMZ-267 | | | |
| NCS DC73001 | 0.085 | | |
| ECRM-B 651-1 | 0.10 | | |
| ECRM-F 679-1 | 0.106 | | 0.021 |
| IMZ-266 | | | |
| NCS DC73002 | 0.091 | | |

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|--------------|-------|--------|
| ECRM-F 607-1 | 0.123 | |
| ECRM-D 627-2 | | 0.225 |
| VS-P24/1 | | |
| NCS DC11013 | 0.043 | 0.0045 |
| VS-P20/2 | | |
| ECRM-F 601-1 | 0.114 | |
| IMZ-265 | | |
| NCS DC14012A | 0.171 | 0.023 |
| VS-P8/3 | 0.85 | |

Iron ore continued 铁矿石

| 编号 | 描述 | 种类 | Al | Al2O3 | As | BaO | Ca | CaO | Co | Cr | Cu | Fe | FeO | H2O+ | K | 规格 |
|--------------|-----------------|-----|------|-------|--------|-------|-------|-------|-------|------|--------|-------|---------|--------|-------|------|
| NCS DC73003 | Iron ore | CRM | | 2.27 | | | | 2.00 | | | 0.028 | 40.51 | (14.5) | (1.37) | | 50g |
| ECRM-F 612-1 | Iron ore sinter | CRM | 3.00 | | | | 12.06 | | | | | 42.4 | | | | 100g |
| NCS DC11010 | Iron ore | CRM | | 2.29 | 0.0026 | | | 11.21 | | | 0.023 | 42.59 | 15.6 | | | 70g |
| NCS DC19013 | Iron ore | CRM | | 4.10 | | | | 0.124 | | | | 42.89 | | | | 100g |
| VS-P7/4 | Iron ore | CRM | | 4.75 | 0.121 | 0.142 | | 1.55 | | | | 43.4 | | | | 75g |
| IMZ-264 | Iron ore | CRM | | 1.14 | | | | 0.23 | | | | 44.25 | | | | 100g |
| ECRM-F 610-1 | Laterite | CRM | 1.96 | | | | | | 0.075 | 1.84 | | 47.46 | | | | 100g |
| NCS DC73004 | Iron ore | CRM | | 2.58 | | | | 0.91 | | | 0.0014 | 49.50 | 7.66 | (2.1) | | 50g |
| NCS DC14011A | Iron ore | CRM | | 2.46 | 0.024 | | | 4.28 | | | 0.59 | 49.86 | (20.20) | | | 100g |
| NCS DC28213 | Iron ore | CRM | | 3.28 | | | | 6.90 | | | | 50.92 | 19.9 | | | 100g |
| ECRM 677-1 | Iron ore | CRM | 0.32 | | | | 0.038 | | | | | 51.54 | | | 0.008 | 100g |
| IMZ-263 | Iron ore | CRM | | 1.14 | | | | 0.17 | | | | 52.10 | | | | 100g |
| NCS DC18016 | Iron ore | CRM | | 3.02 | | | | 11.18 | | | | 52.31 | 7.69 | | | 100g |

| 编号 | K2O | Mg | MgO | Mn | MnO | Na | Na2O | Ni | P | Pb | S | Si | SiO2 |
|--------------|-------|-------|-------|--------|-------|-------|-------|----------|---------|--------|---------|-------|-------|
| NCS DC73003 | 0.27 | | 2.22 | 0.122 | | | 0.16 | | 0.032 | | 0.94 | | 33.93 |
| ECRM-F 612-1 | | 1.20 | | 0.363 | | | | | 0.885 | | 0.053 | 5.94 | |
| NCS DC11010 | 0.191 | | 3.74 | | 0.197 | | 0.161 | | 0.026 | 0.0023 | 1.56 | | 16.73 |
| NCS DC19013 | | | 0.517 | | 1.67 | | | | 0.099 | | | | 22.06 |
| VS-P7/4 | 0.354 | | 0.75 | | 2.46 | | 0.117 | | 1.13 | 0.011 | 0.133 | | 13.75 |
| IMZ-264 | | | 0.22 | (0.04) | 0.043 | | | | 0.025 | | 0.055 | | 33.56 |
| ECRM-F 610-1 | | 1.86 | | 0.581 | | | | 1.48 | 0.007 | | 0.189 | 3.16 | |
| NCS DC73004 | 0.91 | | 0.98 | 0.198 | | | 0.035 | | 0.138 | | 0.065 | | 16.30 |
| NCS DC14011A | 0.32 | | 2.30 | 0.143 | | | 0.144 | | 0.057 | | 2.11 | | 9.79 |
| NCS DC28213 | | | 3.40 | | 0.943 | | | | 0.050 | | 0.130 | | 13.68 |
| ECRM 677-1 | | 0.012 | | 0.016 | | 0.007 | | (0.0015) | 0.0170 | | (0.005) | 11.78 | |
| IMZ-263 | | | 0.17 | (0.04) | 0.045 | | | | (0.026) | | 0.036 | | 22.78 |
| NCS DC18016 | 0.134 | | 2.69 | | 0.215 | | 0.043 | | 0.074 | | 0.038 | | 7.10 |

| 编号 | Ti | TiO2 | V2O5 | Zn | ZnO |
|--------------|-------|-------|------|-------|-----|
| NCS DC73003 | 0.067 | | | | |
| ECRM-F 612-1 | 0.151 | | | | |
| NCS DC11010 | | 0.113 | | 0.019 | |

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| | | | |
|--------------|-------|-------|-------|
| NCS DC19013 | 0.26 | | |
| VS-P7/4 | 0.192 | 0.125 | 0.032 |
| IMZ-264 | | | |
| ECRM-F 610-1 | 0.015 | | |
| NCS DC73004 | 0.083 | | |
| NCS DC14011A | 0.150 | 0.030 | |
| NCS DC28213 | 0.241 | | |
| ECRM 677-1 | 0.013 | | |
| IMZ-263 | | | |
| NCS DC18016 | 0.90 | | |

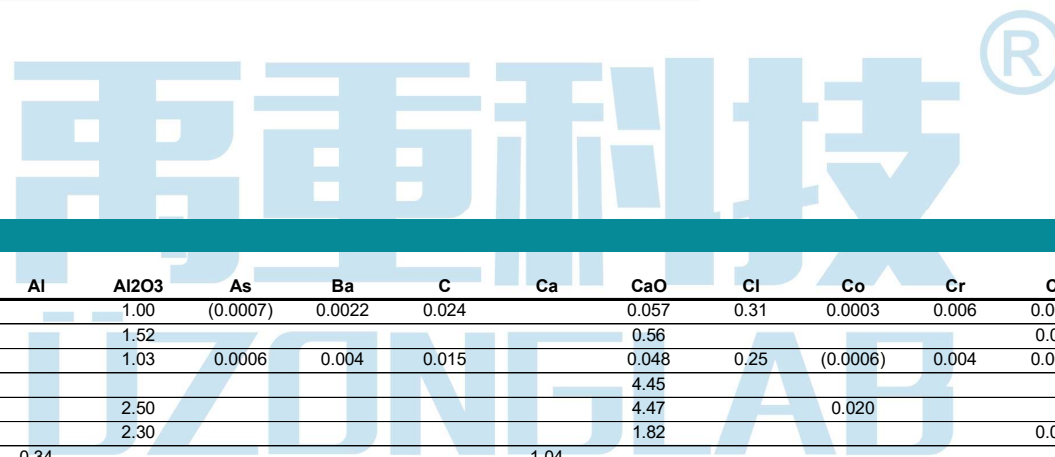
Iron ore continued 铁矿石

| 编号 | 描述 | 种类 | Al | Al2O3 | As | Ba | C | Ca | CaO | Cl | Co | Cr | Cr2O3 | Cu | Fe | 规格 |
|--------------|----------------------|-----|------|-------|----------|--------|-------|--------|-------|--------|--------|--------|-------|--------|-------|------|
| NCS DC18015 | Iron ore | CRM | | 2.59 | | | | | 9.25 | | | | | | 53.28 | 100g |
| ECRM-F 603-1 | Iron ore | CRM | 4.20 | | | | | (0.91) | | | | | | | 53.65 | 100g |
| NCS DC19004A | V-Ti-Fe conc. | CRM | | 4.08 | | | | | 0.84 | | 0.023 | | 0.027 | | 53.65 | 100g |
| NCS DC18013 | Iron ore | CRM | | 4.39 | 0.110 | | | | 0.087 | | | | | 0.171 | 53.80 | 100g |
| NCS DC19014 | Iron ore | CRM | | 2.57 | | | | | 0.419 | | | | 1.88 | | 53.92 | 100g |
| NCS DC28225 | Iron ore | CRM | | 2.93 | | | | | 11.49 | | | | | | 54.96 | 100g |
| NCS DC19016 | Iron ore | CRM | | 3.07 | | | | | 1.08 | | 0.010 | | 0.34 | | 55.23 | 100g |
| NCS DC18012 | Iron ore | CRM | | 5.54 | | | | | 0.42 | | | | | | 55.51 | 100g |
| VS-P5/6 | Iron ore agglomerate | CRM | | 2.57 | | | | | 9.30 | | | | | | 55.8 | 150g |
| IMZ-PI 3-13 | Iron ore | CRM | | 1.13 | (0.0008) | 0.0017 | 0.031 | | 0.079 | (0.29) | 0.0002 | 0.0067 | | 0.0015 | 55.85 | 100g |
| NCS DC11018 | Iron ore | CRM | | 2.20 | 0.0014 | | | | 9.89 | | | | | 0.0044 | 56.02 | 70g |
| NCS DC28212 | Iron ore | CRM | | 2.53 | | | | | 8.04 | | | | | | 56.29 | 100g |
| NCS DC73005 | Iron ore | CRM | | 0.99 | | | | | 1.36 | | | | | 0.068 | 56.60 | 50g |

| 编号 | FeO | H2O+ | K2O | LOI | Mg | MgO | Mn | MnO | Na2O | Ni | P | Pb | S |
|--------------|-------|--------|-------|-------|----|-------|-------|-------|-------|--------|--------|--------|--------|
| NCS DC18015 | 5.88 | | | | | 2.61 | | 0.539 | | | 0.076 | | 0.065 |
| ECRM-F 603-1 | | | | | | (0.2) | 0.440 | | | | 0.084 | | 0.097 |
| NCS DC19004A | 32.36 | | 0.011 | | | 3.13 | | 0.37 | 0.054 | 0.011 | 0.0016 | | 0.762 |
| NCS DC18013 | 1.06 | | 0.099 | | | 0.054 | | 0.100 | 0.008 | | 0.074 | 0.106 | 0.234 |
| NCS DC19014 | | | | | | 3.81 | | 0.335 | | | 0.006 | | 0.064 |
| NCS DC28225 | 10.7 | | | | | 0.98 | | 0.171 | | | 0.050 | | 0.032 |
| NCS DC19016 | 1.01 | | 0.123 | | | 1.88 | | 0.199 | 0.173 | 0.021 | 0.037 | | 0.0087 |
| NCS DC18012 | 9.04 | | 0.069 | | | 0.67 | | 0.455 | | | 0.376 | | 0.023 |
| VS-P5/6 | 9.81 | | | | | 1.95 | | 0.86 | | | 0.029 | | 0.035 |
| IMZ-PI 3-13 | 0.68 | | 0.030 | -1.31 | | 0.31 | 0.03 | | 0.23 | 0.0024 | 0.031 | 0.0009 | 0.0085 |
| NCS DC11018 | 7.78 | | 0.038 | | | 2.87 | | 0.355 | 0.057 | | 0.058 | 0.0031 | 0.023 |
| NCS DC28212 | 26.9 | | | | | 1.96 | | 0.289 | | | 0.032 | | 0.197 |
| NCS DC73005 | 20.50 | (1.63) | 0.071 | | | 3.62 | 0.076 | | 0.058 | | 0.017 | | 2.44 |

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| 编号 | Si | SiO2 | Ti | TiO2 | V | V2O5 | Zn |
|--------------|------|-------|-------|-------|---------|------|--------|
| NCS DC18015 | | 6.37 | | 0.70 | | | |
| ECRM-F 603-1 | 1.28 | | 0.137 | | | | |
| NCS DC19004A | | 3.21 | | 12.85 | | 0.56 | 0.037 |
| NCS DC18013 | | 5.03 | | 0.253 | | | 0.253 |
| NCS DC19014 | | 3.27 | | 11.85 | | 0.56 | |
| NCS DC28225 | | 5.89 | | 0.152 | | | |
| NCS DC19016 | | 6.43 | | 7.69 | | 0.51 | 0.033 |
| NCS DC18012 | | 7.62 | | 0.129 | | | |
| VS-P5/6 | | 5.71 | | 0.29 | | | |
| IMZ-PI 3-13 | | 17.29 | | 0.044 | (0.001) | | 0.0028 |
| NCS DC11018 | | 4.50 | | 0.108 | | | 0.065 |
| NCS DC28212 | | 8.86 | | 0.208 | | | |
| NCS DC73005 | | 11.48 | 0.043 | | | | |



Iron ore continued 铁矿石

| 编号 | 描述 | 种类 | Al | Al2O3 | As | Ba | C | Ca | CaO | Cl | Co | Cr | Cu | F | Fe | 规格 |
|--------------|----------------------|-----|-------|-------|----------|--------|-------|-------|-------|------|----------|-------|--------|-------|--------|------|
| IMZ-PI 3-12 | Iron ore | CRM | | 1.00 | (0.0007) | 0.0022 | 0.024 | | 0.057 | 0.31 | 0.0003 | 0.006 | 0.0014 | | 57.69 | 100g |
| NCS DC14043 | Hematite | CRM | | 1.52 | | | | | 0.56 | | | | 0.066 | | 57.78 | 100g |
| IMZ-PI 3-11 | Iron ore | CRM | | 1.03 | 0.0006 | 0.004 | 0.015 | | 0.048 | 0.25 | (0.0006) | 0.004 | 0.0012 | | 58.65 | 100g |
| VS-P23/1 | Fe-V pellets | CRM | | | | | | | 4.45 | | | | | | 58.7 | 150g |
| VS-P3/2 | Fe-V pellets | CRM | | 2.50 | | | | | 4.47 | | 0.020 | | | | 58.72 | 100g |
| NCS DC14010B | Iron ore | CRM | | 2.30 | | | | | 1.82 | | | | 0.048 | | 58.84 | 100g |
| ECRM-F 606-1 | Iron ore | CRM | 0.34 | | | | | 1.04 | | | | | | | 59.66 | 100g |
| IMZ-262 | Iron ore | CRM | | 0.71 | | | | | 0.42 | | | | | | 59.73 | 100g |
| ECRM-D 680-1 | Iron ore, purple ore | CRM | 0.659 | | 0.0571 | | | 0.450 | | | | | | | 59.976 | 100g |
| CAN-SCH-1 | Iron Ore | CRM | 0.509 | | | | | 0.029 | | | | | | | 60.73 | 200g |
| ECRM-D 678-1 | Kiruna D Iron ore | CRM | 0.276 | | | | | 3.93 | | | | | | 0.289 | 60.75 | 100g |
| ECRM-D 631-1 | Venezuela iron ore | CRM | | 1.06 | | | | | 0.75 | | | | | | 61.09 | 100g |

| 编号 | FeO | K | K2O | LOI | Mg | MgO | Mn | MnO | Na | Na2O | Ni | P | Pb |
|--------------|--------|--------|-------|-------|-------|------|--------|-------|--------|-------|--------|---------|--------|
| IMZ-PI 3-12 | (0.72) | | 0.032 | -1.20 | | 0.21 | 0.025 | | | 0.27 | 0.0022 | 0.027 | 0.0011 |
| NCS DC14043 | 1.48 | | 0.22 | | | 0.54 | 0.104 | | | 0.023 | | 0.046 | |
| IMZ-PI 3-11 | 0.78 | | 0.065 | -0.98 | | 0.06 | 0.018 | | | 0.23 | 0.003 | 0.048 | 0.0014 |
| VS-P23/1 | | | | | | | | | | | | | |
| VS-P3/2 | 2.53 | | | | | 2.48 | | 0.232 | | | | 0.0027 | |
| NCS DC14010B | 18.69 | | 0.214 | | | 1.18 | 0.60 | | | 0.057 | | 0.022 | |
| ECRM-F 606-1 | | | | | 0.32 | | 2.59 | | | | | 0.026 | |
| IMZ-262 | | | | | | 0.83 | (0.04) | 0.044 | | | | (0.016) | |
| ECRM-D 680-1 | | 0.0781 | | | 0.137 | | 0.0249 | | 0.1283 | | | 0.0175 | 0.3166 |

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|--------------|--------|-------|-------|--------|-------|
| CAN-SCH-1 | 0.027 | 0.020 | 0.777 | 0.019 | 0.054 |
| ECRM-D 678-1 | 0.111 | 0.573 | 0.075 | 0.107 | 1.608 |
| ECRM-D 631-1 | (0.04) | 0.54 | 0.044 | (0.04) | 0.114 |

| 编号 | S | Si | SiO2 | Ti | TiO2 | V | V2O5 | Zn |
|--------------|---------|-------|-------|--------|-------|--------|------|--------|
| IMZ-PI 3-12 | 0.011 | | 14.67 | | 0.039 | 0.0019 | | 0.0022 |
| NCS DC14043 | 0.187 | | 11.18 | 0.070 | | | | |
| IMZ-PI 3-11 | 0.015 | | 13.58 | | 0.039 | 0.0014 | | 0.0017 |
| VS-P23/1 | | | 3.75 | | | | | |
| VS-P3/2 | 0.005 | | 3.74 | | 2.49 | | 0.56 | |
| NCS DC14010B | 0.088 | | 7.73 | | 0.460 | | | 0.149 |
| ECRM-F 606-1 | 0.033 | 1.04 | | 0.019 | | | | |
| IMZ-262 | (0.005) | | 12.28 | | | | | |
| ECRM-D 680-1 | 0.5440 | 4.205 | | 0.0447 | | | | |
| CAN-SCH-1 | 0.007 | 3.78 | | 0.031 | | | | |
| ECRM-D 678-1 | 0.021 | 1.727 | | 0.127 | | 0.115 | | |
| ECRM-D 631-1 | 0.033 | | 3.20 | | 0.109 | | | |



Iron ore continued 铁矿石

| 编号 | 描述 | 种类 | Al | As | B | Be | Ca | Ce | Co | Cr | Cu | Fe | Ga | Gd | Hf | 规格 |
|--------------|----------|-----|-----------|-----------|----------|-----------|-----------|-----------|--------|-----------|-----------|----------|-----------|-----------|-----------|------|
| ECRM-S 688-1 | Iron Ore | CRM | 0.679 | (0.0011) | (0.0005) | (0.0001) | 1.449 | (0.0055) | 0.0096 | (0.00217) | 0.0023 | 61.38 | (0.0036) | (0.00035) | (0.00004) | 100g |
| 编号 | | | Hg | Ho | K | La | Lu | Mg | Mn | Na | Nb | Nd | Ni | P | Pb | |
| ECRM-S 688-1 | | | (0.00005) | (0.00007) | 0.180 | (0.0026) | (0.00003) | 1.061 | 0.0457 | 0.333 | (0.00016) | (0.0026) | 0.0136 | 0.337 | 0.00025 | |
| 编号 | | | Pr | Rb | S | Sb | Sc | Se | Si | Sm | Sn | Sr | Ta | Tb | Th | |
| ECRM-S 688-1 | | | (0.0007) | (0.0009) | (0.0468) | (0.00001) | (0.0007) | (0.00007) | 3.383 | (0.00046) | (0.00033) | (0.0019) | (0.00001) | (0.00006) | (0.0014) | |
| 编号 | | | Ti | Tm | U | V | Y | Yb | Zn | Zr | | | | | | |
| ECRM-S 688-1 | | | 0.408 | (0.00003) | (0.0002) | 0.135 | (0.0019) | (0.0002) | 0.0015 | (0.0015) | | | | | | |

| 编号 | 描述 | 种类 | Al | Al2O3 | As | Ba | C | Ca | CaO | Co | Cr | Cu | Fe | FeO | H2O+ | 规格 |
|-------------|-----------------|-----|------|-------|--------|-------|-------|----|---------|--------|---------|---------|-------|--------|---------|------|
| NCS DC73006 | Iron ore | CRM | | 1.68 | | | | | 0.52 | | | 0.0028 | 61.46 | (0.35) | (0.046) | 50g |
| NCS DC28024 | Iron ore | CRM | | 2.12 | 0.0011 | | | | 0.118 | 0.0009 | 0.0054 | 0.0014 | 61.53 | 0.24 | | 100g |
| SEI-801-6 | Indian hematite | CRM | 1.09 | | | | | | (0.014) | | (0.005) | (0.002) | 61.75 | | | 100g |
| NCS DC18011 | Iron ore | CRM | | 3.05 | | | | | 0.051 | | | | 61.80 | 0.30 | | 100g |
| IMZ-PI 3-33 | Iron ore | CRM | | 0.33 | | 0.003 | 0.011 | | 0.34 | | 0.006 | 0.002 | 61.87 | 1.65 | | 100g |

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|--------------|-------------------|-----|------|--------|--------|-------|------|---------|--------|--------|--------|-------|------|------|
| NCS DC28216 | Iron ore | CRM | 1.46 | | | | | 3.65 | | | 62.01 | 26.9 | | 100g |
| IMZ-PI 3-32 | Iron ore | CRM | 0.32 | | 0.0036 | 0.012 | | 0.39 | | 0.005 | 0.0021 | 62.10 | 1.61 | 100g |
| NCS DC28025 | Iron ore | CRM | 2.06 | 0.0011 | | | | 0.021 | 0.0015 | 0.0038 | 0.0018 | 62.11 | 0.58 | 100g |
| SARM 132 | Iron ore hematite | CRM | 1.84 | | | | | (0.086) | | | | 62.2 | | 100g |
| ECRM-F 611-1 | Iron ore sinter | CRM | 0.69 | | | | 2.85 | | | | | 62.22 | | 100g |

| 编号 | K2O | LOI | Mg | MgO | Mn | MnO | Na2O | Ni | P | Pb | S | Si | SiO2 |
|--------------|-------|------|---------|-------|-------|----------|---------|--------|-------|--------|----------|------|-------|
| NCS DC73006 | 0.098 | | | 0.77 | 0.072 | | 0.080 | | 0.019 | | (0.0067) | | 6.65 |
| NCS DC28024 | 0.026 | | | 0.109 | 0.276 | | 0.034 | 0.0027 | 0.068 | 0.0008 | 0.038 | | 3.43 |
| SEI-801-6 | | | (0.032) | | 0.707 | | | 0.0033 | 0.060 | | 0.0093 | 1.95 | |
| NCS DC18011 | | | | 0.102 | | 0.170 | | | 0.076 | | 0.022 | | 4.52 |
| IMZ-PI 3-33 | 0.11 | 0.13 | | 0.73 | 0.034 | | 0.057 | 0.002 | 0.008 | 0.0015 | 0.001 | | 10.07 |
| NCS DC28216 | | | | 1.10 | | 0.176 | | | 0.020 | | 0.258 | | 6.74 |
| IMZ-PI 3-32 | 0.117 | 0.11 | | 0.71 | 0.026 | | 0.050 | 0.002 | 0.010 | 0.0016 | 0.003 | | 9.63 |
| NCS DC28025 | 0.023 | | | 0.101 | 0.65 | | 0.013 | 0.0033 | 0.067 | 0.0008 | 0.013 | | 2.92 |
| SARM 132 | 0.219 | | | | | (0.0200) | (0.031) | | 0.054 | | | | 7.82 |
| ECRM-F 611-1 | | | 0.32 | | 1.97 | | | | 0.030 | | (0.008) | 2.07 | |

| 编号 | Ti | TiO2 | V | Zn |
|--------------|-------|---------|---------|--------|
| NCS DC73006 | 1.12 | | | |
| NCS DC28024 | 0.052 | | | 0.002 |
| SEI-801-6 | 0.051 | | (0.003) | |
| NCS DC18011 | | 0.134 | | |
| IMZ-PI 3-33 | | 0.026 | 0.001 | 0.0014 |
| NCS DC28216 | | 0.388 | | |
| IMZ-PI 3-32 | | 0.027 | (0.001) | 0.0023 |
| NCS DC28025 | 0.051 | | | 0.0026 |
| SARM 132 | | (0.094) | | |
| ECRM-F 611-1 | 0.033 | | | |

Iron ore continued 铁矿石

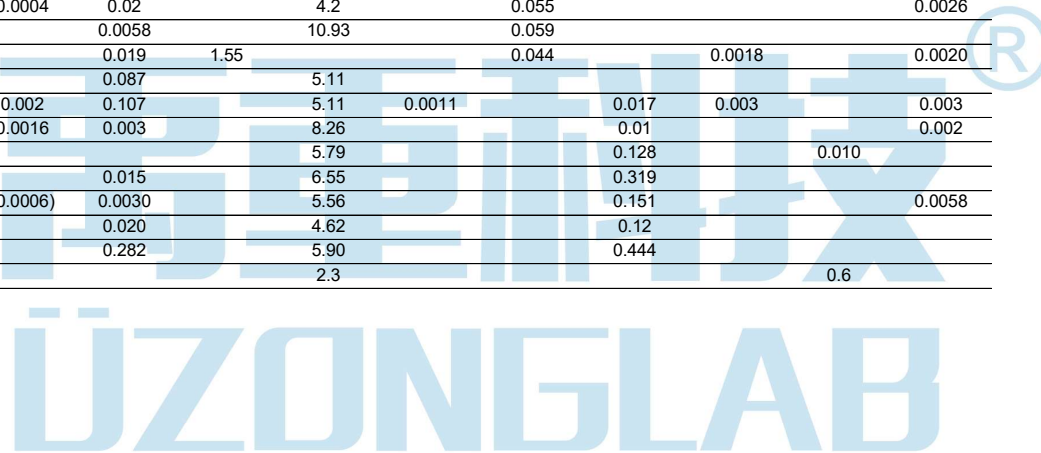
| 编号 | 描述 | 种类 | Al | Al2O3 | As | Ba | C | Ca | CaO | Co | Cr | Cr2O3 | Cu | Fe | FeO | 规格 |
|-------------|-------------------------|-----|------|-------|----------|---------|-------|--------|-------|-------|--------|-------|----------|-------|-------|------|
| NCS DC28026 | Iron ore | CRM | | 2.39 | 0.0013 | | | | 0.144 | 0.001 | 0.0027 | | 0.0015 | 62.27 | 0.59 | 100g |
| NCS DC73007 | Iron ore | CRM | | 1.02 | | | | | 0.18 | | | | (0.0015) | 62.51 | 21.54 | 50g |
| SEI-806-1 | Australian hematite | CRM | 0.96 | | | | | 0.0197 | | | 0.0033 | | 0.0012 | 62.77 | 0.15 | 100g |
| VS-P28 | Fluxed iron ore pellets | CRM | | 0.37 | | | | | 4.09 | | | | | 63.01 | 1.16 | 100g |
| IMZ-PI 3-31 | Iron ore | CRM | | 0.24 | (0.0004) | 0.0025 | | | 3.78 | 0.001 | 0.0051 | | 0.0016 | 63.05 | 1.55 | 100g |
| IMZ-PI 3-30 | Iron ore | CRM | | 0.13 | | (0.003) | 0.016 | | 1.04 | | 0.003 | | 0.0017 | 63.09 | 1.19 | 100g |
| DH-SX11-15 | Iron ore | RM | | 2.68 | | | | | 0.494 | | | 0.005 | | 63.17 | | 100g |
| NCS DC28224 | Iron ore | CRM | | 1.02 | | | | | 0.86 | | | | | 63.20 | 1.4 | 100g |
| NCS DC11017 | Iron ore | CRM | | 1.13 | (0.0006) | | | | 1.05 | | | | 0.0045 | 63.33 | 1.76 | 70g |
| NCS DC14049 | Iron ore | CRM | | 2.04 | | | | | 0.084 | | | | | 63.86 | 0.25 | 100g |
| NCS DC28215 | Iron ore | CRM | | 1.09 | | | | | 2.06 | | | | | 63.93 | 26.9 | 100g |
| VS-P15/3 | Fe-V concentrate | CRM | | | | | | | 0.9 | | | | | 64.0 | 28.0 | 100g |

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| 编号 | H2O+ | K | K2O | LOI | Mg | MgO | Mn | MnO | Na | Na2O | Ni | P | P2O5 |
|-------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|-------|---------|--------|-------|
| NCS DC28026 | | | 0.023 | | | 0.156 | 0.17 | | | 0.024 | 0.0024 | 0.078 | |
| NCS DC73007 | (0.41) | | 0.037 | | | 0.28 | 0.061 | | | 0.016 | | 0.11 | |
| SEI-806-1 | | 0.0091 | | 4.4 | 0.034 | | 0.125 | | 0.0115 | | 0.0013 | 0.083 | |
| VS-P28 | | | | | | 0.194 | | | | | | 0.0121 | |
| IMZ-PI 3-31 | | | 0.092 | 0.22 | | 0.21 | 0.028 | | | 0.037 | 0.002 | 0.015 | |
| IMZ-PI 3-30 | | | 0.18 | -0.04 | | 0.23 | 0.012 | | | 0.073 | (0.002) | 0.013 | |
| DH-SX11-15 | | | 0.008 | | | 0.244 | 0.074 | | | 0.020 | | | 0.101 |
| NCS DC28224 | | | | | | 0.50 | | 0.083 | | | | 0.020 | |
| NCS DC11017 | | | 0.115 | | | 1.30 | | 0.086 | | 0.070 | | 0.011 | |
| NCS DC14049 | | | 0.33 | | | 0.056 | 0.170 | | | 0.027 | | 0.037 | |
| NCS DC28215 | | | | | | 0.79 | | 0.136 | | | | 0.017 | |
| VS-P15/3 | | | | | | | | | | | | | |

| 编号 | Pb | S | Si | SiO2 | Sn | Ti | TiO2 | V | V2O5 | Zn |
|-------------|----------|--------|------|-------|--------|-------|-------|--------|-------|--------|
| NCS DC28026 | 0.0004 | 0.02 | | 4.2 | | 0.055 | | | | 0.0026 |
| NCS DC73007 | | 0.0058 | | 10.93 | | 0.059 | | | | |
| SEI-806-1 | | 0.019 | 1.55 | | | 0.044 | | 0.0018 | | 0.0020 |
| VS-P28 | | 0.087 | | 5.11 | | | | | | |
| IMZ-PI 3-31 | 0.002 | 0.107 | | 5.11 | 0.0011 | | 0.017 | 0.003 | | 0.003 |
| IMZ-PI 3-30 | 0.0016 | 0.003 | | 8.26 | | | 0.01 | | | 0.002 |
| DH-SX11-15 | | | | 5.79 | | | 0.128 | | 0.010 | |
| NCS DC28224 | | 0.015 | | 6.55 | | | 0.319 | | | |
| NCS DC11017 | (0.0006) | 0.0030 | | 5.56 | | | 0.151 | | | 0.0058 |
| NCS DC14049 | | 0.020 | | 4.62 | | | 0.12 | | | |
| NCS DC28215 | | 0.282 | | 5.90 | | | 0.444 | | | |
| VS-P15/3 | | | | 2.3 | | | | | 0.6 | |



Iron ore continued 铁矿石

| 编号 | 描述 | 种类 | Al2O3 | As | Ba | C | C (tot) | CO2 | CaO | Cl | Co | Cr | Cr2O3 | Cu | Fe | 规格 |
|-------------|----------|-----|-------|--------|----|---|---------|-------|-------|----|----|----|-------|-------|-------|------|
| DH-SX11-25 | Iron ore | RM | 1.200 | | | | 0.671 | 0.93 | 2.53 | | | | 0.002 | | 64.05 | 100g |
| DH-SX11-16 | Iron ore | RM | 0.722 | | | | 0.016 | 0.026 | 1.149 | | | | 0.038 | | 64.69 | 100g |
| DH-SX11-35 | Iron ore | RM | 1.49 | | | | 0.069 | 0.007 | 0.011 | | | | | | 64.69 | 100g |
| DH-SX11-18 | Iron ore | RM | 1.785 | | | | 0.085 | 0.033 | 0.052 | | | | | | 64.72 | 100g |
| DH-SX11-23 | Iron ore | RM | 1.619 | | | | 0.058 | | 0.034 | | | | | | 64.80 | 100g |
| NCS DC28218 | Iron ore | CRM | 0.80 | | | | | | 0.65 | | | | | | 64.81 | 100g |
| NCS DC28217 | Iron ore | CRM | 1.30 | | | | | | 0.85 | | | | | | 64.82 | 100g |
| NCS DC11012 | Iron ore | CRM | 1.18 | 0.0006 | | | | | 1.36 | | | | | 0.008 | 64.89 | 70g |

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|-------------|---------------------------|-----|-------|-------|--------|-------|-------|-------|-------|--------|---------|--------|-------|------|
| IMZ-PI 3-21 | Iron ore | CRM | 0.20 | | 0.0019 | 0.18 | | 0.15 | 0.083 | 0.0009 | (0.002) | | 64.94 | 100g |
| VS-P29 | Non-fluxed iron ore pelle | CRM | 0.38 | | | | | 0.45 | | | | | 64.95 | 100g |
| NCS DC15006 | Magnetite | CRM | 0.27 | | | | | 0.52 | | | | 0.0020 | 64.97 | 100g |
| IMZ-PI 3-10 | Iron ore | CRM | 1.02 | 0.005 | 0.003 | 0.158 | | 0.30 | 0.07 | 0.003 | 0.005 | 0.0011 | 65.25 | 100g |
| DH-SX11-24 | Iron ore | RM | 1.26 | | | | 0.068 | 0.098 | 2.05 | | | 0.003 | 65.47 | 100g |
| IMZ-PI 3-22 | Iron ore | CRM | 0.095 | | 0.0013 | 0.047 | | 0.26 | | 0.0008 | 0.0019 | | 65.50 | 100g |
| DH-SX11-28 | Iron ore | RM | 1.23 | | | | 0.030 | 0.075 | 2.08 | | | | 65.52 | 100g |

| 编号 | FeO | K2O | LOI | LOI (900°C) | MgO | Mn | MnO | Na2O | Ni | NiO | P | P2O5 | Pb |
|-------------|-------|-------|-------|-------------|-------|-------|-------|-------|--------|-------|--------|-------|--------|
| DH-SX11-25 | 0.193 | 0.033 | | 0.354 | 0.421 | 0.068 | | 0.016 | | | | 0.087 | |
| DH-SX11-16 | | 0.023 | | 0.059 | 0.400 | 0.198 | | 0.016 | | 0.011 | | 0.058 | |
| DH-SX11-35 | 0.06 | 0.016 | | 2.31 | 0.033 | 1.520 | | | | | | 0.140 | |
| DH-SX11-18 | | 0.020 | | 2.51 | 0.057 | 0.713 | | 0.014 | | | | 0.141 | |
| DH-SX11-23 | 0.133 | 0.008 | | | 0.037 | 0.049 | | 0.006 | | | | 0.123 | |
| NCS DC28218 | 25.4 | | | | 1.78 | | 0.084 | | | | 0.026 | | |
| NCS DC28217 | 24.5 | | | | 0.31 | | 0.088 | | | | 0.053 | | |
| NCS DC11012 | 25.63 | 0.154 | | | 1.72 | | 0.119 | 0.064 | | | 0.0064 | | 0.0008 |
| IMZ-PI 3-21 | 25.94 | 0.029 | 1.99 | | 0.44 | 0.017 | | 0.077 | 0.0024 | | 0.015 | | |
| VS-P29 | 0.48 | | | | 0.149 | | | | | | 0.0123 | | |
| NCS DC15006 | 29.83 | 0.028 | | | 0.42 | | 0.053 | 0.015 | | | 0.022 | | |
| IMZ-PI 3-10 | 1.61 | 0.022 | -1.20 | | 0.25 | 0.058 | | 0.054 | 0.002 | | 0.034 | | 0.0013 |
| DH-SX11-24 | 0.109 | 0.031 | 0.079 | | 0.135 | 0.034 | | 0.014 | | | | 0.081 | |
| IMZ-PI 3-22 | 26.82 | 0.058 | 2.25 | | 0.46 | 0.026 | | 0.069 | 0.0014 | | 0.015 | | 0.0011 |
| DH-SX11-28 | 0.144 | 0.024 | 0.059 | | 0.110 | 0.044 | | 0.011 | | | | 0.094 | |

| 编号 | S | SiO2 | TiO2 | V | V2O5 | Zn | ZnO |
|-------------|--------|-------|-------|--------|-------|---------|--------|
| DH-SX11-25 | 0.010 | 2.52 | 0.045 | | 0.008 | | |
| DH-SX11-16 | | 4.67 | 0.078 | | 0.009 | | 0.0010 |
| DH-SX11-35 | 0.006 | 0.696 | 0.052 | | | | |
| DH-SX11-18 | 0.009 | 1.56 | 0.075 | | 0.017 | | 0.005 |
| DH-SX11-23 | 0.011 | 2.67 | 0.047 | | 0.005 | | 0.0009 |
| NCS DC28218 | 0.035 | 5.04 | 0.477 | | | | |
| NCS DC28217 | 0.011 | 4.91 | 0.949 | | | | |
| NCS DC11012 | 0.409 | 3.51 | 0.084 | | | 0.013 | |
| IMZ-PI 3-21 | 0.026 | 8.33 | 0.016 | 0.0005 | | (0.003) | |
| VS-P29 | 0.0118 | 6.13 | | | | | |
| NCS DC15006 | 0.76 | 6.80 | 0.055 | | | | |
| IMZ-PI 3-10 | 0.011 | 6.58 | 0.035 | 0.0015 | | 0.0019 | |
| DH-SX11-24 | 0.004 | 2.54 | 0.045 | | | | |
| IMZ-PI 3-22 | 0.047 | 7.56 | 0.012 | 0.0002 | | 0.0029 | |
| DH-SX11-28 | 0.004 | 2.55 | 0.043 | | 0.005 | | |

Iron ore continued 铁矿石

| 编号 | 描述 | 种类 | Al | Al2O3 | C | C (tot) | CO2 | Ca | CaO | Cl (sol) | Cr | Cr2O3 | Cu | Fe | FeO | 规格 |
|--------------|---------------------|-----|------|-------|-------|---------|-----|-------|-------|----------|---------|-------|-------|-------|--------|------|
| DH-SX11-14 | Iron ore | RM | | 0.271 | 0.125 | | | | 0.421 | | | 0.006 | | 65.55 | 27.20 | 100g |
| ECRM-D 630-1 | Iron ore, Bomi hill | CRM | | 0.88 | | | | | 0.10 | | | | | 65.63 | | 100g |
| SEI-850-4 | Marcona pellet | CRM | | 0.40 | | | | | 0.41 | | (0.003) | | 0.008 | 65.67 | (0.30) | 100g |
| ECRM-F 604-1 | Iron ore | CRM | 0.93 | | | | | 0.107 | | | | | | 65.69 | | 100g |

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|-----------------|--------------------|-----|-------|-------|-------|--------|---------|-------|--------|------|
| DH-SX11-36 | Iron ore | RM | 0.345 | 0.016 | 0.030 | 0.370 | 0.025 | 65.74 | 100g | |
| JK 28 | Iron ore | CRM | 0.35 | | | 0.21 | | 65.86 | 2.4 | 150g |
| NCS DC18014 | Iron ore | CRM | 1.39 | | | 0.15 | | 65.87 | 0.43 | 100g |
| NCS DC28214 | Iron ore | CRM | 0.70 | | | 0.43 | | 65.97 | 27.0 | 100g |
| VS-P1/4 | Iron Ore | CRM | 0.28 | | | 0.17 | | 66.0 | 26.1 | 100g |
| ECRM-B 682-2 | Iron Ore | CRM | 0.325 | | | | 0.0005 | 66.12 | | 100g |
| DH-SX11-37 | Iron ore | RM | 0.442 | 0.101 | 0.089 | 1.930 | 0.017 | 66.15 | 0.32 | 100g |
| SEI-805-2 | Brazilian hematite | CRM | 0.565 | | | 0.0071 | | 66.22 | 0.0094 | 100g |
| BAS-BCS-CRM 517 | Brazilian iron ore | CRM | 0.508 | 0.061 | | 0.033 | 0.00075 | 66.30 | 0.0088 | 100g |
| NCS DC28223 | Iron ore | CRM | 1.04 | | | 0.64 | | 66.31 | 24.4 | 100g |
| DH-SX11-13 | Iron ore | RM | 1.11 | 0.035 | | 0.030 | | 66.33 | 0.04 | 100g |

| 编号 | Fe2O3 | K | K2O | LOI | Mg | MgO | Mn | MnO | Na | Na2O | Ni | P | P2O5 |
|-----------------|-------|--------|-------|-------|--------|-------|--------|-------|--------|---------|-------|--------|-------|
| DH-SX11-14 | | | 0.061 | | | 0.565 | 0.029 | | | 0.078 | | | 0.028 |
| ECRM-D 630-1 | | | | | | 0.47 | 0.060 | | | | | 0.043 | |
| SEI-850-4 | | | 0.075 | | | 0.79 | 0.019 | | 0.129 | (0.006) | 0.013 | | |
| ECRM-F 604-1 | | | | | 0.049 | | 0.092 | | | | 0.053 | | |
| DH-SX11-36 | | | 0.033 | 0.057 | | 0.083 | 1.21 | | 0.025 | | | | 0.017 |
| JK 28 | 91.5 | 0.99 | | | 0.18 | | 0.045 | | 0.078 | | | 0.045 | |
| NCS DC18014 | | | 0.197 | | | 0.023 | | 0.042 | | | | 0.073 | |
| NCS DC28214 | | | | | | 0.45 | | 0.094 | | | | 0.013 | |
| VS-P1/4 | | | | | | 0.38 | | | | | | 0.0157 | |
| ECRM-B 682-2 | | | | | 0.0133 | | 0.0311 | | | | | 0.0529 | |
| DH-SX11-37 | | | 0.011 | 0.080 | | 0.164 | 0.038 | | 0.020 | | | | 0.113 |
| SEI-805-2 | | 0.012 | | 1.72 | 0.0221 | | 0.596 | | 0.0026 | | | 0.047 | |
| BAS-BCS-CRM 517 | | 0.0105 | | 1.898 | 0.0311 | | 0.679 | | 0.0097 | | | 0.0408 | |
| NCS DC28223 | | | | | | 0.26 | | 0.085 | | | | 0.039 | |
| DH-SX11-13 | | | 0.010 | 1.244 | | 0.040 | 0.432 | | <0.003 | | | | 0.084 |

| 编号 | Pb | S | Si | SiO2 | Ti | TiO2 | V | V2O5 | Zn | ZnO |
|-----------------|--------|--------|-------|-------|--------|-------|--------|-------|---------|-------|
| DH-SX11-14 | | 0.019 | | 7.47 | | 0.060 | | 0.002 | | |
| ECRM-D 630-1 | | 0.032 | | 5.88 | | 0.066 | | | | |
| SEI-850-4 | | 0.006 | | 4.12 | | 0.056 | 0.025 | | (0.007) | |
| ECRM-F 604-1 | | 0.015 | 1.27 | | 0.060 | | | | | |
| DH-SX11-36 | | 0.002 | | 3.35 | | 0.023 | | 0.006 | | 0.003 |
| JK 28 | | 0.004 | 1.96 | | 0.11 | | | | | |
| NCS DC18014 | | 0.021 | | 3.15 | | 0.061 | | | | |
| NCS DC28214 | | 0.291 | | 5.02 | | 0.541 | | | | |
| VS-P1/4 | | 0.029 | | 7.38 | | | | | | |
| ECRM-B 682-2 | 0.0004 | 0.0140 | 0.833 | | 0.0441 | | 0.0015 | | | |
| DH-SX11-37 | | 0.003 | | 2.365 | | 0.032 | | | | |
| SEI-805-2 | | 0.0077 | 0.552 | | 0.0409 | | 0.0039 | | 0.0047 | |
| BAS-BCS-CRM 517 | 0.0028 | 0.0090 | 0.519 | | 0.0332 | | 0.0040 | | 0.0047 | |
| NCS DC28223 | | 0.011 | | 4.17 | | 0.709 | | | | |
| DH-SX11-13 | | 0.002 | | 1.80 | | 0.046 | | 0.007 | | |

Iron ore continued 铁矿石

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| 编号 | 描述 | 种类 | Al | Al2O3 | As | Ba | C | Ca | CaO | Co | Cr | Cu | Fe | FeO | H2O+ | 规格 |
|--------------|---------------------|-----|-------|-------|--------|--------|-------|--------|-------|---------|--------|----------|-------|-------|--------|------|
| NCS DC28027 | Iron ore | CRM | | 1.42 | 0.0004 | | | | 0.02 | 0.0009 | 0.0015 | 0.0085 | 66.34 | 0.07 | | 100g |
| NCS DC28028 | Iron ore | CRM | | 1.36 | 0.0012 | | | | 0.028 | 0.0008 | 0.003 | 0.0014 | 66.47 | 0.58 | | 100g |
| SARM 12 | Iron ore, magnetite | CRM | 0.41 | | | | | 0.78 | | | | 0.0502 | 66.63 | | | 100g |
| NCS DC28222 | Iron ore | CRM | | 0.76 | | | | | 0.86 | | | | 66.64 | 27.9 | | 100g |
| ECRM-B 690-1 | Haematite iron ore | CRM | 0.198 | | | | | 0.269 | | 0.0089 | 0.0113 | 0.0006 | 66.70 | | | 100g |
| NCS DC73009 | Iron ore | CRM | | 0.99 | | | | | 0.14 | | | (0.0015) | 66.87 | 23.14 | (0.44) | 50g |
| SEI-804-2 | Iscon hematite | CRM | 0.51 | | 0.0019 | | | 0.0490 | | | 0.0244 | | 66.93 | | | 100g |
| VS-P22/2 | Iron ore pellets | CRM | | 0.3 | | | | | 0.1 | | | | 67.0 | | | 150g |
| NCS DC11016 | Iron ore | CRM | | 0.94 | | | | | 0.31 | | | 0.0015 | 67.03 | 27.22 | | 70g |
| VS-P25/1 | Iron ore pellets | CRM | | | | | | | 0.14 | | | | 67.3 | | | 150g |
| IMZ-261 | Iron ore | CRM | | 0.59 | | | | | 0.30 | | | | 67.54 | | | 100g |
| IMZ-PI 3-25 | Iron ore | CRM | | 0.20 | | 0.0021 | 0.094 | | 0.17 | 0.002 | 0.0023 | 0.0010 | 67.73 | 28.03 | | 100g |
| IMZ-PI 3-20 | Iron ore | CRM | | 0.12 | 0.0015 | 0.0019 | 0.033 | | 0.13 | (0.003) | 0.003 | 0.0015 | 67.76 | 27.37 | | 100g |
| NCS DC28221 | Iron ore | CRM | | 0.60 | | | | | 0.63 | | | | 67.84 | 28.8 | | 100g |
| IMZ-PI 3-23 | Iron ore | CRM | | 0.23 | | 0.0020 | 0.027 | | 0.109 | 0.0026 | 0.0020 | 0.0007 | 68.35 | 27.65 | | 100g |

| 编号 | K | K2O | LOI | Mg | MgO | Mn | MnO | Na | Na2O | Ni | P | Pb | S |
|--------------|--------|-------|------|--------|-------|--------|-------|--------|--------|----------|---------|----------|--------|
| NCS DC28027 | | 0.013 | | | 0.063 | 0.48 | | | 0.0055 | 0.0008 | 0.034 | 0.0013 | 0.0071 |
| NCS DC28028 | | 0.014 | | | 0.091 | 0.137 | | | 0.005 | 0.0019 | 0.055 | 0.0013 | 0.0066 |
| SARM 12 | 0.0108 | | | 1.69 | | 0.17 | | 0.0091 | | 0.0281 | 0.0477 | | 0.0695 |
| NCS DC28222 | | | | | 1.62 | | 0.091 | | | | 0.0051 | | 0.096 |
| ECRM-B 690-1 | 0.0158 | | | 0.815 | | 0.0337 | | 0.0312 | | 0.0200 | 0.0085 | | |
| NCS DC73009 | | 0.030 | | | 0.22 | 0.071 | | | 0.012 | | (0.011) | | 0.0055 |
| SEI-804-2 | | | | 0.0099 | | 0.016 | | | | 0.0028 | 0.050 | | 0.0132 |
| VS-P22/2 | | | | | 0.2 | | | | | | 0.008 | | |
| NCS DC11016 | | 0.063 | | | 0.45 | | 0.081 | | 0.047 | | 0.0093 | (0.0003) | 0.044 |
| VS-P25/1 | | | | | 0.25 | | | | | | | | |
| IMZ-261 | | | | | 1.37 | | 0.16 | | | | (0.019) | | 0.080 |
| IMZ-PI 3-25 | | 0.027 | 2.53 | | 0.27 | 0.031 | | | (0.03) | | 0.016 | 0.0017 | 0.077 |
| IMZ-PI 3-20 | | 0.049 | 2.87 | | 0.30 | 0.029 | | | 0.037 | (0.0013) | 0.022 | 0.0015 | 0.012 |
| NCS DC28221 | | | | | 1.40 | | 0.070 | | | | 0.0046 | | 0.041 |
| IMZ-PI 3-23 | | 0.027 | 2.49 | | 0.28 | 0.043 | | | 0.035 | 0.0002 | 0.018 | 0.0015 | 0.052 |

| 编号 | Si | SiO2 | Ti | TiO2 | V | Zn |
|--------------|-------|------|-------|-------|---------|---------|
| NCS DC28027 | | 1.02 | 0.057 | | | 0.0032 |
| NCS DC28028 | | 1.79 | 0.046 | | | 0.0044 |
| SARM 12 | 0.16 | | 0.43 | | | |
| NCS DC28222 | | 2.96 | | 0.070 | | |
| ECRM-B 690-1 | 0.881 | | 0.229 | | 0.1417 | |
| NCS DC73009 | | 5.05 | 0.059 | | | |
| SEI-804-2 | 1.17 | | 0.023 | | 0.0031 | |
| VS-P22/2 | | 3.3 | | | | |
| NCS DC11016 | | 4.47 | | 0.267 | | 0.0047 |
| VS-P25/1 | | 3.37 | | | | |
| IMZ-261 | | 3.16 | | | | |
| IMZ-PI 3-25 | | 5.01 | | 0.018 | 0.0018 | (0.003) |
| IMZ-PI 3-20 | | 5.30 | | 0.016 | 0.0015 | 0.002 |
| NCS DC28221 | | 2.34 | | 0.061 | | |
| IMZ-PI 3-23 | | 4.31 | | 0.017 | (0.002) | 0.0021 |

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Iron ore continued 铁矿石

| 编号 | 描述 | 种类 | Al | Al2O3 | As | Ba | C | Ca | CaO | Co | Cr | Cu | Fe | FeO | K | 规格 |
|--------------|--------------------------|-----|--------|-------|---------|--------|-------|--------|-------|--------|--------|--------|--------|-------|--------|------|
| NCS DC28219 | Iron ore | CRM | | 0.54 | | | | | 0.21 | | | | 68.55 | 23.0 | | 100g |
| IMZ-PI 3-24 | Iron ore | CRM | | 0.11 | | 0.0024 | 0.052 | | 0.107 | 0.003 | 0.0025 | 0.0014 | 68.93 | 28.27 | | 100g |
| NCS DC28220 | Iron ore | CRM | | 0.50 | | | | | 0.20 | | | | 69.05 | 23.8 | | 100g |
| NCS DC11015 | Iron ore | CRM | | 0.31 | | | | | 0.19 | | | 0.0021 | 69.58 | 29.37 | | 70g |
| NCS DC16002 | Iron concentrate | CRM | | 0.069 | | | | | | | | | 71.79 | 28.69 | | 100g |
| NCS DC28029 | Iron ore | CRM | | 0.095 | 0.00012 | | | | 0.025 | 0.0008 | 0.0062 | 0.0007 | 72.01 | 28.63 | | 100g |
| VS-P10/3 | Previously reduced pelle | CRM | | 0.30 | | | 2.18 | | 0.182 | | | 0.0025 | 90.9 | | | 100g |
| ECRM-F 685-1 | Prereduced iron ore | CRM | 0.3197 | | | | 1.487 | 0.1395 | | 0.0133 | | | 91.103 | | 0.0418 | 100g |
| VS-P16/3 | Iron powder | CRM | | | | | 0.108 | | | | | | 98.2 | | | 100g |
| VS-P21/2 | Iron powder | CRM | | | | | 0.02 | | | | | | 99.0 | | | 100g |
| VS-P16/2 | Iron powder | CRM | | | | | 0.052 | | | | | | 99.1 | | | 100g |

| 编号 | K2O | LOI | Mg | MgO | Mn | MnO | Na | Na2O | Ni | O | P | Pb | S |
|--------------|--------|------|--------|-------|--------|-------|--------|--------|--------|------|--------|----------|--------|
| NCS DC28219 | | | | 0.20 | | 0.052 | | | | | 0.0054 | | 0.027 |
| IMZ-PI 3-24 | 0.026 | 2.91 | | 0.24 | 0.026 | | | (0.04) | 0.0013 | | 0.014 | 0.0002 | 0.044 |
| NCS DC28220 | | | | 0.17 | | 0.079 | | | | | 0.010 | | 0.011 |
| NCS DC11015 | 0.035 | | | 0.26 | | 0.061 | | 0.017 | | | 0.0064 | (0.0004) | 0.048 |
| NCS DC16002 | | | | 0.038 | 0.053 | | | | | | 0.0022 | | 0.055 |
| NCS DC28029 | 0.0068 | | | 0.042 | 0.043 | | | 0.0008 | 0.0022 | | 0.0013 | 0.0002 | 0.0028 |
| VS-P10/3 | 0.037 | | | 0.32 | | | | 0.073 | | | 0.0102 | 0.00014 | 0.0013 |
| ECRM-F 685-1 | | | 0.2394 | | 0.0415 | | 0.0773 | | 0.0175 | | 0.0170 | | 0.0031 |
| VS-P16/3 | | | | | 0.380 | | | | | 1.15 | 0.0110 | | 0.0198 |
| VS-P21/2 | | | | | 0.3 | | | | | 0.3 | 0.01 | | 0.02 |
| VS-P16/2 | | | | | 0.016 | | | | | 0.66 | 0.0162 | | 0.0072 |

| 编号 | Si | SiO2 | Ti | TiO2 | V | Zn |
|--------------|--------|-------|--------|-------|--------|---------|
| NCS DC28219 | | 3.21 | | 0.116 | | |
| IMZ-PI 3-24 | | 3.96 | | 0.028 | | (0.003) |
| NCS DC28220 | | 2.45 | | 0.313 | | |
| NCS DC11015 | | 2.67 | | 0.117 | | 0.0039 |
| NCS DC16002 | | 0.36 | | | | |
| NCS DC28029 | | 0.158 | 0.028 | | | 0.0026 |
| VS-P10/3 | | 4.04 | | | | 0.0019 |
| ECRM-F 685-1 | 0.7950 | | 0.2199 | | 0.1436 | |
| VS-P16/3 | 0.073 | | | | | |
| VS-P21/2 | 0.06 | | | | | |
| VS-P16/2 | 0.021 | | | | | |

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Iron ore continued 铁矿石

| 编号 | 描述 | 种类 | Al | Al2O3 | As | Ca | CaO | Co | Cr | Cu | Fe (tot) | FeO | K | K2O | LOI | 规格 |
|--------------|-------------------|-----|------|-------|--------|------|-------|----------|-------|--------|----------|-------|-------|--------|--------|------|
| BS-105 | Iron ore | RM | 0.10 | | 0.0013 | 0.50 | | (0.0004) | 0.013 | 0.001 | 65.95 | | 0.014 | | | 100g |
| SEI-831-2 | Taharoa iron sand | CRM | 1.97 | | | 1.05 | | | 0.028 | 0.0068 | 56.64 | | 0.061 | | (0.11) | 100g |
| NCS DC11014 | Iron ore | CRM | | 0.19 | | | 0.11 | | | 0.0011 | 66.65 | 25.52 | | 0.0066 | | 70g |
| NCS DC13019C | Iron concentrate | CRM | | 0.174 | | | 0.196 | | | | 68.96 | 28.98 | | 0.0068 | | 100g |
| NCS DC14001B | Iron ore | CRM | | 1.26 | | | 0.15 | | | | 64.48 | 0.34 | | 0.096 | | 100g |
| NCS DC14004B | Iron ore pellets | CRM | | 1.32 | | | 1.16 | | | 0.071 | 62.79 | 0.72 | | 0.250 | | 100g |
| NCS DC14028B | Iron ore | CRM | | 1.06 | | | 1.10 | | | 0.060 | 64.54 | 21.36 | | 0.009 | | 100g |
| NCS DC14033 | Hematite | CRM | | 0.48 | | | 0.11 | 0.0048 | | 0.061 | 61.73 | 1.51 | | 0.056 | | 100g |
| NCS DC28020 | Iron pellets | CRM | | 1.25 | | | 1.08 | | | | 60.77 | 0.97 | | | | 100g |
| NCS DC28021 | Iron pellets | CRM | | 2.16 | | | 1.75 | | | | 59.95 | 4.20 | | | | 100g |

| 编号 | Mg | MgO | Mn | MnO | Na | Na2O | Ni | P | Pb | S | Si | SiO2 | Sn |
|--------------|------|-------|-------|-------|-------|--------|--------|-------|----------|---------|------|------|---------|
| BS-105 | 0.19 | | 0.09 | | 0.017 | | 0.004 | 0.008 | (0.0003) | (0.001) | 2.14 | | (0.001) |
| SEI-831-2 | 2.09 | | 0.501 | | 0.082 | | 0.0077 | 0.153 | | 0.0049 | 1.93 | | |
| NCS DC11014 | | 0.20 | | 0.069 | | 0.0027 | | 0.013 | 0.0034 | 0.060 | | 6.63 | |
| NCS DC13019C | | 0.268 | | 0.049 | | 0.0060 | | 0.010 | 0.0052 | 0.0277 | | 3.98 | |
| NCS DC14001B | | 0.041 | 0.087 | | | 0.013 | | 0.049 | | 0.018 | | 3.40 | |
| NCS DC14004B | | 1.58 | 0.130 | | | 0.112 | | 0.016 | | 0.012 | | 5.31 | |
| NCS DC14028B | | 1.81 | 0.155 | | | 0.008 | | 0.016 | | 0.356 | | 3.94 | |
| NCS DC14033 | | 0.055 | 0.027 | | | 0.0056 | 0.0023 | | | 0.036 | | 9.82 | |
| NCS DC28020 | | 1.99 | 0.110 | | | | | 0.021 | | 0.019 | | 8.25 | |
| NCS DC28021 | | 1.82 | 0.113 | | | | | 0.019 | | 0.048 | | 7.89 | |

| 编号 | Ti | TiO2 | V | Zn |
|--------------|-------|--------|-------|---------|
| BS-105 | 0.008 | | 0.003 | (0.001) |
| SEI-831-2 | 4.51 | | 0.299 | 0.074 |
| NCS DC11014 | | 0.008 | | 0.0030 |
| NCS DC13019C | | 0.0174 | | 0.0030 |
| NCS DC14001B | | 0.057 | | |
| NCS DC14004B | | 0.113 | | 0.042 |
| NCS DC14028B | 0.249 | | | |
| NCS DC14033 | 0.041 | | | |
| NCS DC28020 | 0.063 | | | |
| NCS DC28021 | 0.084 | | | |

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Iron ore continued 铁矿石

| 编号 | 描述 | 种类 | Al2O3 | As | C (tot) | CO2 | CaO | Cd | Co | Cr | Cu | Fe (tot) | FeO | H2O- | K | 规格 |
|--------------|--------------------|-----|-------|----------|---------|------|-------|-----------|-------|--------|-------|----------|-------|--------|--------|------|
| NIST-690 | Iron ore, Canada | CRM | 0.18 | | | | 0.20 | | | | | 66.85 | | | | 100g |
| NIST-691 | Iron ore reduced | CRM | 1.22 | (0.0014) | 0.12 | | 0.63 | (<0.0005) | 0.030 | (0.03) | 0.032 | 90.8 | | | (0.06) | 100g |
| NIST-692 | Iron ore Labrador | CRM | 1.41 | | | | 0.023 | | | | | 59.58 | | | | 100g |
| NIST-693 | Iron ore Nimba | CRM | 1.04 | | | | 0.016 | | | | | 65.11 | | | | 100g |
| CGL-USZ27-99 | Iron ore (CGL 113) | CRM | 1.37 | | | | 0.56 | | 0.013 | | 0.030 | 62.20 | 21.06 | (0.25) | | 100g |
| VS-P33 | Iron ore conc. | CRM | | | | | 8.35 | | | | 0.112 | 50.42 | | | | 100g |
| VS-P9/2 | Siderite iron ore | CRM | 0.64 | | | 10.6 | 2.55 | | | | | 33.01 | 40.0 | | | 125g |
| JK 47 | Iron ore | CRM | | | | | | | | | | | | | | 35g |

| 编号 | K2O | LOI | MgO | MnO | Mo | N | Na2O | Ni | O | P | P2O5 | Pb | S |
|--------------|--------|--------|-------|-------|-----------|----------|--------|-------|------|--------|---------|-----------|-------|
| NIST-690 | 0.0030 | | 0.18 | 0.23 | | | 0.003 | | | 0.011 | | | 0.003 |
| NIST-691 | | | 0.52 | 0.043 | (<0.0020) | (0.0050) | 0.186 | (0.3) | | 0.006 | | (<0.0020) | 0.008 |
| NIST-692 | 0.039 | | 0.035 | 0.46 | | | 0.008 | | | 0.039 | | | 0.005 |
| NIST-693 | 0.0028 | | 0.013 | 0.091 | | | 0.0028 | | | 0.056 | | | 0.005 |
| CGL-USZ27-99 | 0.07 | (1.46) | 2.78 | 0.105 | | | (0.04) | 0.008 | | | (0.016) | | |
| VS-P33 | | | 1.33 | | | | | | | 0.039 | | | 3.10 |
| VS-P9/2 | | | 10.9 | | | | | | | 0.0056 | | | 0.205 |
| JK 47 | | | | | | 0.0067 | | | 1.09 | | | | |

| 编号 | SO3 | SiO2 | Sn | TiO2 | V | Zn |
|--------------|------|-------|-----------|-------|----------|----------|
| NIST-690 | | 3.71 | | 0.022 | | |
| NIST-691 | | 3.7 | (<0.0010) | 0.27 | (0.0135) | (0.0040) |
| NIST-692 | | 10.14 | | 0.045 | | |
| NIST-693 | | 3.87 | | 0.035 | | |
| CGL-USZ27-99 | 7.14 | 3.37 | | 0.101 | | (0.013) |
| VS-P33 | | 10.62 | | | | |
| VS-P9/2 | | 2.29 | | | | |
| JK 47 | | | | | | |

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Iron oxide 铁氧化物

| 编号 | 描述 | 种类 | Al | Al2O3 | As | BaO | Bi | C | CO2 | Ca | CaO | Cl | Cl (H2O) | Co | Co3O4 | 规格 |
|--------------|-------------------------------|-----|----------|---------|-----------|---------|-----------|--------------|--------|-----------|---------|--------------|----------|-----------|---------|------|
| DH-P0401 | Iron oxide | RM | | 0.00221 | | 0.00031 | | | 0.0070 | | 0.00046 | | | | 0.00307 | 100g |
| DH-P0402 | Iron oxide | RM | | 0.0805 | | | | 0.0107 (tot) | | | 0.0041 | | 0.0957 | | 0.0117 | 100g |
| DH-P0403 | Iron oxide | RM | | 0.0924 | | | | (0.0113 tot) | | | 0.0046 | 0.1373 (tot) | 0.1360 | | 0.0112 | 100g |
| ECRM-D 686-1 | Iron oxide from pickling bath | CRM | 0.0407 | | | | | | | 0.0097 | | | 0.095 | 0.0019 | | 100g |
| SEI-009-3 | Pure iron oxide | CRM | (0.0003) | | (<0.0001) | | (<0.0001) | (0.02) | | (<0.0001) | | | | (<0.0001) | | 50g |
| VS-P26/2 | Iron oxide | CRM | 0.026 | | | | | (0.005) | | (0.005) | | | | | | 75g |

| 编号 | Cr | Cr2O3 | Cu | CuO | Fe | FeO | Fe2O3 | H2O Loss | K | K2O | LOI | Mg | MgO |
|--------------|---------|---------|-----------|--------|-------------|--------|-------|----------|-----------|--------|-------|-----------|---------|
| DH-P0401 | | 0.00234 | | | | | | 0.01730 | | | | | 0.00037 |
| DH-P0402 | | 0.0575 | | 0.0133 | | | | | | 0.0012 | | | 0.0012 |
| DH-P0403 | | 0.0591 | | 0.0132 | | | | | | 0.0020 | | | 0.0013 |
| ECRM-D 686-1 | 0.0182 | | 0.0038 | | 69.44 (tot) | | | | 0.0024 | | | 0.0027 | |
| SEI-009-3 | 0.00097 | | (<0.0001) | | 69.84 (tot) | | | | (<0.0002) | | (0.4) | (0.00003) | |
| VS-P26/2 | 0.0194 | | 0.0090 | | | (<0.1) | 99.49 | | (0.006) | | | (<0.005) | |

| 编号 | Mn | 0.00119 | Mo | MoO3 | Na | Na2O | Ni | NiO | P | P2O5 | Pb | S | SO3 |
|--------------|-----------|---------|--------|---------|-----------|----------|-----------|--------|-----------|---------|-----------|----------|---------|
| DH-P0401 | | 0.3226 | | 0.00053 | | <0.00070 | | | | 0.00029 | | | 0.00165 |
| DH-P0402 | | 0.3522 | | | | (0.0027) | | 0.0301 | | 0.0176 | | | 0.0032 |
| DH-P0403 | | | | | | (0.0203) | | 0.0301 | | 0.0195 | | | 0.0062 |
| ECRM-D 686-1 | 0.231 | | 0.0007 | | 0.0058 | | 0.0127 | | 0.0078 | | | | |
| SEI-009-3 | (0.00006) | | | | (<0.0001) | | (0.00003) | | (<0.0002) | | (<0.0001) | (0.0001) | |
| VS-P26/2 | 0.292 | | | | | | 0.024 | | | | | (0.04) | |

| 编号 | Si | SiO2 | Sn | SrO | Ti | TiO2 | V | WO3 | Zn | ZnO |
|--------------|--------|--------|--------|----------|--------|--------|---|---------|--------|---------|
| DH-P0401 | | | | 0.000012 | | | | 0.00126 | | 0.00095 |
| DH-P0402 | | 0.0138 | | | | 0.0089 | | | | |
| DH-P0403 | | 0.0376 | | | | 0.0087 | | | | |
| ECRM-D 686-1 | 0.0083 | | 0.0025 | | 0.0014 | | | | 0.0004 | |

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|-----------|----------|-----------|-----------|-----------|-----------|
| SEI-009-3 | (<0.004) | (<0.0002) | (<0.0001) | (<0.0001) | (<0.0002) |
| VS-P26/2 | 0.0110 | | | | |

Lead ore 铅矿石

| 编号 | 描述 | 种类 | Ag | Al | Al2O3 | As | Au | Ba | Bi | C | Ca | CaO | Cd | Ce | Co | 规格 |
|-----------------|-----------------------|-----|-----------|-----------|--------|---------|------------|----------|-----------|--------|----------|----------|---------|----------|------------|-----------|
| BAS-BCS-CRM 362 | Mine tailing sample | CRM | | | 0.667 | 0.0030 | | | | | | 44.21 | 0.0200 | | | 100g |
| CAN-CPB-2 | Lead floatation conc. | CRM | (0.03573) | 0.074 | | (0.04) | (0.000002) | (0.0007) | (0.02112) | | (0.0776) | | 0.0167 | | (0.0004) | 200g |
| CERAM-AN28 | Lead bisilicate | RM | | | 2.46 | | | | | | | 0.05 | | | | 25 / 100g |
| NIM-GBW07235 | Lead Ore | CRM | 0.00147 | | 12.88 | 0.00851 | | | 0.00156 | | | 19.51 | 0.00032 | 0.00783 | | 50g |
| NCS DC70003 | Lead Ore | CRM | 0.00056 | | 8.95 | 0.00432 | | | 0.00125 | | | 34.56 | 0.00026 | 0.00668 | | 50g |
| NCS DC35003 | Lead concentrate | CRM | 0.210 | | 0.140 | 1.27 | | | 0.151 | | | | | | | 100g |
| VS-2038-81 | Lead concentrate | CRM | 0.0415 | | | | 0.000021 | | | | | | | | | 100g |
| IND-RPZ-PC | Lead ore | CRM | 0.0660 | | 0.22 | 0.06 | | | | 3.45 | | 4.06 | 0.015 | | | 120g |
| 编号 | | | Cr | Cs | Cu | Dy | Er | Eu | F | Fe | Fe2O3 | Ga | Gd | Ge | Hg | Ho |
| BAS-BCS-CRM 362 | | | 0.0011 | | 0.0056 | | | | | | 0.483 | | | | | |
| CAN-CPB-2 | | | (0.0060) | | 0.1213 | | | | | 7.065 | | | | | (0.001003) | |
| CERAM-AN28 | | | | | | | | | | | 0.018 | | | | | |
| NIM-GBW07235 | | | (0.0029) | (0.0006) | 0.20 | 0.00030 | 0.00015 | 0.00012 | 0.27 | | 4.37 | 0.00167 | 0.00037 | 0.000090 | | 0.000061 |
| NIM-GBW07236 | | | (0.0041) | (0.00023) | 0.035 | 0.00031 | 0.00016 | 0.000082 | 0.23 | | 3.79 | 0.00117 | 0.00036 | 0.000093 | | 0.000065 |
| NCS DC35003 | | | | | 0.487 | | | | | 10.68 | | | | | | |
| VS-2038-81 | | | | | | | | | | | | | | | | |
| IND-RPZ-PC | | | | | 0.66 | | | | | 5.03 | | | | | | |
| 编号 | | | In | K | K2O | La | Li | LOI | Lu | Mg | MgO | Mn | MnO | Mn3O4 | Mo | Na |
| BAS-BCS-CRM 362 | | | | | 0.14 | | | 32.81 | | | 0.068 | | | 0.829 | | |
| CAN-CPB-2 | | | | (0.02) | | | | | | 0.0683 | | (0.0395) | | | (0.0009) | (0.01) |
| CERAM-AN28 | | | | | 0.05 | | | 0.15 | | | <0.01 | | | | | |

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|--------------|----------|------|---------|----------|----------|-------|------|---------|
| NIM-GBW07235 | 0.00012 | 1.42 | 0.00405 | (0.0019) | 0.000024 | 1.62 | 1.40 | 0.00016 |
| NIM-GBW07236 | 0.000009 | 0.82 | 0.00312 | (0.0018) | 0.000025 | 2.06 | 1.53 | 0.00013 |
| NCS DC35003 | | | | | | 0.043 | | |
| VS-2038-81 | | | | | | | | |
| IND-RPZ-PC | | | | | | 2.30 | 0.39 | |

| 编号 | Na2O | Nd | Ni | Pb | PbO | pH | Pr | Rb | S | Sb | Sc | Se | Sm | SiO2 |
|-----------------|-------|---------|-----------|--------|-------|------|---------|----------|---------|---------|---------|----------|---------|---------|
| BAS-BCS-CRM 362 | 0.084 | | 0.0012 | 2.30 | 2.63 | 8.14 | | | 1.48 | | | | | 9.03 |
| CAN-CPB-2 | | | (0.0011) | 63.52 | | | | | (18.02) | (0.423) | | (0.0010) | | (0.652) |
| CERAM-AN28 | 0.05 | | | | 64.33 | | | | | | | | | 32.76 |
| NIM-GBW07235 | 1.61 | 0.00282 | 0.00277 | 4.17 | | | 0.00081 | (0.0055) | 0.86 | 0.00393 | 0.00075 | 0.00017 | 0.00051 | 43.63 |
| NIM-GBW07236 | 0.066 | 0.00234 | 0.00345 | 0.61 | | | 0.00062 | (0.0074) | 0.38 | 0.00120 | 0.00081 | 0.000081 | 0.00046 | 30.51 |
| NCS DC35003 | | | | 58.06 | | | | | 1.13 | | | | | 0.344 |
| VS-2038-81 | | | 0.0000410 | (Rest) | | | | | | | | | | |
| IND-RPZ-PC | | | 0.00052 | 52.13 | | | | | 16.76 | | | | | 1.26 |

| 编号 | Sn | SrO | Tb | Te | Th | TiO2 | Tl | Tm | W | Y | Yb | Zn | ZnO |
|-----------------|---------|-------|----------|---------|---------|-------|----------|----------|---------|---------|---------|-------|------|
| BAS-BCS-CRM 362 | | 0.034 | | | | 0.047 | | | | | | 2.03 | 2.59 |
| CAN-CPB-2 | (0.001) | | | | | | (0.0340) | | | | | 6.04 | |
| CERAM-AN28 | | | | | | <0.01 | | | | | | | |
| NIM-GBW07235 | 0.00030 | | 0.000058 | 0.00039 | 0.00102 | 0.53 | 0.000043 | 0.000023 | 0.00176 | 0.00154 | 0.00015 | 0.062 | |
| NIM-GBW07236 | 0.00029 | | 0.000060 | 0.00012 | 0.00105 | 0.44 | 0.00010 | 0.000026 | 0.00306 | 0.00162 | 0.00017 | 0.092 | |
| NCS DC35003 | 3.48 | | | | | | | | | | | 0.982 | |
| VS-2038-81 | | | | | | | | | | | | | |
| IND-RPZ-PC | 0.012 | | | | | | | | | | | 7.05 | |

Lead-zinc ore 铅锌矿

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | CaO | Cd | Cu | Fe (tot)* | H2O- | H2O+ | Hg | K2O | LOI | MgO | 规格 |
|-------------|---------------|-----|---------|--------|-------|---------|---------|---------|-----------|--------|-------------|-------------|---------|---------|--------|-----|
| NCS DC29110 | Lead-Zinc Ore | CRM | 0.0120 | (3.35) | 0.020 | (15.89) | 0.00135 | 8.53 | (31.16) | (0.66) | (1.58) | (0.0000039) | (0.22) | (11.05) | (1.78) | 50g |
| NCS DC29112 | Lead-Zinc Ore | CRM | 0.0362 | (7.83) | 0.082 | (1.22) | 0.10 | (11.61) | (0.36) | (1.37) | (0.0000233) | (2.14) | (10.49) | (0.84) | | 50g |
| NCS DC29113 | Lead-Zinc Ore | CRM | 0.0103 | (3.97) | 0.040 | (23.25) | | 0.075 | (8.65) | (0.13) | (0.92) | (0.0000074) | (0.91) | (13.40) | (2.59) | 50g |
| NCS DC29114 | Lead-Zinc Ore | CRM | 0.03679 | (1.42) | 0.138 | (2.38) | 0.066 | 0.071 | (11.48) | (0.19) | (0.28) | (0.0270) | (0.13) | (12.14) | (3.14) | 50g |

| 编号 | MnO | Na2O | P2O5 | Pb | S | Sb | SiO2 | TiO2 | Zn |
|-------------|---------|--------|---------|-------|---------|---------|---------|--------|-------|
| NCS DC29110 | (0.375) | (0.02) | (0.063) | 0.027 | (15.42) | 0.00353 | (23.28) | (0.17) | 0.19 |
| NCS DC29112 | (1.32) | (0.13) | (0.073) | 2.93 | (8.17) | 0.011 | (59.40) | (0.39) | 0.51 |
| NCS DC29113 | (0.507) | (0.10) | (0.086) | 2.19 | (6.02) | 0.00383 | (31.99) | (0.30) | 1.54 |
| NCS DC29114 | (0.296) | (0.04) | (0.070) | 22.96 | (15.92) | 0.044 | (20.20) | (0.63) | 16.22 |

Lithium ore 锂矿石

| 编号 | 描述 | 种类 | Al2O3 | BeO | CaO | CeO2 | Cs2O | Dy2O3 | Er2O3 | Eu2O3 | F- | FeO | Fe (tot)* | Gd2O3 | H2O- | 规格 |
|-------------|-------------|-----|-------|-------|-------|---------|-------|----------|----------|------------|-------|---------|-----------|----------|------|------|
| NCS DC86303 | Lithium Ore | CRM | 14.76 | 0.018 | 0.335 | 0.00090 | 0.037 | 0.00025 | 0.00012 | (0.000014) | 0.667 | (0.062) | 0.394 | 0.00021 | 1.06 | 100g |
| NCS DC86304 | Lithium Ore | CRM | 19.12 | 0.026 | 0.076 | 0.00026 | 0.117 | 0.000064 | 0.000026 | 0.000013 | 3.12 | (0.020) | 0.301 | 0.000075 | 2.29 | 100g |

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|-------------|-------------------------|-----|-------|--------|-------|------------|------|----------|----------|----------|------|---------|------|----------|------|
| NCS DC86314 | Lithium Ore | CRM | 24.53 | 0.0164 | 0.063 | (0.000188) | 0.30 | 0.000050 | 0.000024 | 0.000010 | 5.08 | (0.043) | 0.30 | 0.000056 | 100g |
| NIST-181 | Lithium ore, Spodumene | CRM | | | | | | | | | | | | | 45g |
| NIST-182 | Lithium ore, Petalite | CRM | | | | | | | | | | | | | 45g |
| NIST-183 | Lithium ore, Lepidolite | CRM | | | | | | | | | | | | | 45g |

| 编号 | H2O+ | Ho2O3 | K2O | La2O3 | Li2O | LOI | Lu2O3 | MgO | MnO | Na2O | Nb2O5 | Nd2O3 | P2O5 |
|-------------|--------|------------|------|-----------|-------|--------|-----------|-------|-------|------|---------|----------|-------|
| NCS DC86303 | | 0.000045 | 3.17 | 0.00051 | 0.460 | 1.48 | 0.000018 | 0.054 | 0.070 | 4.19 | 0.00270 | 0.00050 | 0.173 |
| NCS DC86304 | | (0.000013) | 4.80 | (0.00021) | 2.29 | 4.06 | 0.0000034 | 0.036 | 0.252 | 2.33 | 0.00611 | 0.00028 | 0.237 |
| NCS DC86314 | (2.77) | 0.0000094 | 7.75 | 0.000116 | 3.89 | (5.34) | 0.0000036 | 0.027 | 0.40 | 1.08 | 0.0081 | 0.000166 | 0.13 |
| NIST-181 | | | | | 6.39 | | | | | | | | |
| NIST-182 | | | | | 4.34 | | | | | | | | |
| NIST-183 | | | | | 4.12 | | | | | | | | |

| 编号 | Pr6O11 | Rb2O | REO | Sc2O3 | SiO2 | Sm2O3 | Sn | Ta2O5 | Tb4O7 | TiO2 | Tm2O3 | W | Y2O3 |
|-------------|----------|-------|---------|----------|-------|----------|----------|---------|----------|-------|-----------|---------|----------|
| NCS DC86303 | 0.00013 | 0.145 | 0.00470 | 0.000098 | 74.37 | 0.00016 | (0.0036) | 0.00494 | 0.000043 | 0.018 | 0.000018 | 0.00089 | 0.00169 |
| NCS DC86304 | 0.000063 | 0.735 | 0.00152 | 0.000044 | 64.64 | 0.000064 | 0.00971 | 0.012 | 0.000013 | 0.028 | 0.0000040 | 0.00437 | 0.00034 |
| NCS DC86314 | 0.000046 | 1.24 | 0.00107 | 0.000031 | 53.92 | 0.000052 | 0.0152 | | 0.000010 | 0.029 | 0.0000038 | 0.00790 | 0.000306 |
| NIST-181 | | | | | | | | | | | | | |
| NIST-182 | | | | | | | | | | | | | |
| NIST-183 | | | | | | | | | | | | | |

| 编号 | Yb2O3 |
|-------------|----------|
| NCS DC86303 | 0.00013 |
| NCS DC86304 | 0.000023 |
| NCS DC86314 | 0.000022 |
| NIST-181 | |
| NIST-182 | |
| NIST-183 | |



Manganese ore 锰矿石

| 编号 | 描述 | 种类 | Al | Al2O3 | Ba | C | CO2 | Ca | CaO | Cu | Fe | H2O loss | K2O | LOI | MgO | 规格 |
|------------|---------------|-----|------|-------|-------|-------------|-------|-------|-------|--------|-------|----------|-------|-------|-------|------|
| DH-SX43-03 | Manganese ore | RM | | 2.17 | 0.119 | 0.072 (tot) | 0.062 | | 0.060 | | 30.01 | 4.28 | 0.244 | | 0.032 | 100g |
| IGS-29 | Pyrolusite | CRM | | | 0.59 | | | | | | | | | | | 40g |
| SEI-861-2 | Manganese ore | CRM | 1.57 | | | | | 0.063 | | 0.0064 | (5.7) | | | (3.3) | | 100g |

| 编号 | Mn | MnO2 | Na2O | O | P | P2O5 | S | SO3 | Si | SiO2 | TiO2 |
|------------|-------|-------|-------|-------|-------|-------|--------|-------|------|------|-------|
| DH-SX43-03 | 29.05 | | 0.017 | | | 0.199 | | 0.018 | | 3.63 | 0.070 |
| IGS-29 | | 93.31 | | | | | | | | | |
| SEI-861-2 | 48.7 | | | 13.55 | 0.086 | | 0.0084 | | 2.62 | | |

| 编号 | 描述 | 种类 | Al2O3 | As | B | BaO | CaO | Cr | Cu | Fe | K2O | MgO | Mn | MnO2 | Na2O | 规格 |
|-------------|---------------|-----|-------|-------|---|------|-------|-------|-------|------|------|-------|-------|-------|-------|-----|
| NCS DC11019 | Manganese Ore | CRM | 5.66 | 0.031 | | 0.43 | 12.83 | 0.012 | 0.014 | 8.89 | 1.04 | 0.611 | 18.36 | 25.59 | 0.045 | 60g |

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|-------------|---------------|-----|-------|-------|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|------|
| NCS DC11020 | Manganese Ore | CRM | 7.69 | 0.034 | 0.54 | 2.36 | 0.026 | 0.021 | 9.66 | 1.11 | 1.72 | 22.31 | 30.34 | 0.056 | 60g |
| NCS DC11021 | Manganese Ore | CRM | 6.99 | 0.052 | 0.80 | 2.31 | 0.019 | 0.021 | 11.01 | 1.01 | 0.774 | 26.53 | 36.60 | 0.064 | 60g |
| NCS DC11022 | Manganese Ore | CRM | 6.49 | 0.062 | 1.04 | 1.82 | 0.018 | 0.018 | 10.22 | 0.89 | 0.65 | 29.48 | 41.76 | 0.062 | 60g |
| NCS DC11023 | Manganese Ore | CRM | 3.80 | 0.112 | 1.62 | 2.34 | 0.0053 | 0.011 | 10.25 | 0.396 | 0.78 | 35.54 | 52.73 | 0.053 | 60g |
| NCS DC25008 | Manganese Ore | CRM | 6.81 | | 0.0018 | | 0.071 | | 3.21 | | 0.077 | 45.47 | | | 50g |
| NCS DC28041 | Manganese Ore | CRM | 8.25 | 0.013 | 0.064 | 2.07 | | | 0.85 | 3.74 | 0.60 | 14.45 | 20.66 | 0.48 | 80g |
| NCS DC28042 | Manganese Ore | CRM | 2.80 | 0.032 | 0.164 | 6.20 | 0.0023 | 0.0071 | 10.62 | 0.83 | 3.14 | 22.18 | 18.35 | 0.049 | 80g |
| NCS DC28043 | Manganese Ore | CRM | 6.40 | 0.089 | 1.11 | 1.15 | 0.013 | 0.015 | 10.68 | 0.65 | 0.70 | 30.99 | 45.61 | 0.058 | 80g |
| NCS DC28044 | Manganese Ore | CRM | 2.08 | 0.039 | 0.410 | 3.30 | 0.0018 | 0.0086 | 6.90 | 0.49 | 1.29 | 36.31 | 45.02 | 0.076 | 80g |
| NCS DC28045 | Manganese Ore | CRM | 2.35 | 0.042 | 0.058 | 0.195 | 0.038 | 0.022 | 2.75 | 1.48 | 0.182 | 44.97 | 67.67 | 0.034 | 80g |
| NCS DC28060 | Manganese Ore | CRM | 10.39 | | | 1.22 | | | 5.86 | 2.34 | 0.84 | 18.22 | 27.06 | 0.054 | 50g |
| NCS DC28061 | Manganese Ore | CRM | 9.88 | | | 1.11 | | | 6.71 | 1.95 | 0.94 | 22.93 | 33.45 | 0.053 | 50g |
| NCS DC28062 | Manganese Ore | CRM | 9.97 | | | 0.48 | | | 8.05 | 1.14 | 0.87 | 34.67 | 51.64 | 0.063 | 50g |
| NCS DC28063 | Manganese Ore | CRM | 10.05 | | | 0.99 | | | 8.10 | 1.57 | 1.16 | 27.45 | 39.38 | 0.064 | 50g |
| NCS DC28209 | Manganese Ore | CRM | 1.77 | | | 5.44 | | 0.0066 | 12.00 | | 4.08 | 27.76 | 21.00 | | 100g |
| NCS DC28210 | Manganese Ore | CRM | 7.28 | | | 0.24 | | 0.062 | 5.72 | | 0.257 | 44.76 | 66.46 | | 100g |
| NCS DC28211 | Manganese Ore | CRM | 3.30 | | | 4.21 | | 0.020 | 10.47 | | 3.04 | 32.70 | | | 100g |

| 编号 | Ni | P | Pb | S | SiO2 | TiO2 | V | Zn |
|-------------|--------|-------|--------|--------|-------|-------|--------|--------|
| NCS DC11019 | 0.049 | 0.202 | 0.080 | 0.114 | 21.94 | 0.206 | 0.014 | 0.118 |
| NCS DC11020 | 0.089 | 0.171 | 0.120 | 0.109 | 28.11 | 0.270 | 0.020 | 0.170 |
| NCS DC11021 | 0.073 | 0.163 | 0.124 | 0.084 | 22.10 | 0.247 | 0.020 | 0.164 |
| NCS DC11022 | 0.072 | 0.150 | 0.107 | 0.082 | 19.84 | 0.224 | 0.020 | 0.143 |
| NCS DC11023 | 0.023 | 0.105 | 0.058 | 0.052 | 13.03 | 0.143 | 0.016 | 0.066 |
| NCS DC25008 | | 0.094 | | | 9.51 | 0.087 | | |
| NCS DC28041 | | 0.011 | 0.0025 | 0.012 | 56.03 | 0.177 | | 0.015 |
| NCS DC28042 | 0.0044 | 0.074 | 0.0066 | 0.044 | 24.73 | 0.123 | 0.0044 | 0.012 |
| NCS DC28043 | 0.083 | 0.171 | 0.110 | 0.100 | 17.30 | 0.215 | 0.019 | 0.235 |
| NCS DC28044 | 0.010 | 0.105 | 0.0083 | 0.021 | 17.70 | 0.085 | 0.0075 | 0.027 |
| NCS DC28045 | 0.079 | 0.230 | 0.011 | 0.0086 | 16.00 | 0.105 | 0.018 | 0.070 |
| NCS DC28060 | | 0.082 | | 0.025 | 38.94 | | | |
| NCS DC28061 | | 0.073 | | 0.23 | 31.42 | | | |
| NCS DC28062 | | 0.050 | | 0.011 | 10.70 | | | |
| NCS DC28063 | | 0.059 | | 0.60 | 20.96 | | | |
| NCS DC28209 | 0.0025 | 0.069 | | 0.0067 | 17.54 | 0.085 | | 0.0071 |
| NCS DC28210 | 0.057 | 0.099 | | 0.014 | 4.62 | 0.34 | | 0.088 |
| NCS DC28211 | 0.016 | 0.087 | | 0.0090 | 14.40 | 0.16 | | 0.027 |

Manganese ore continued 锰矿石

| 编号 | 描述 | 种类 | Al2O3 | BaO | CaO | Fe | Fe2O3 | H2O | K2O | LOI | MgO | Mn | MnO | Na2O | O | 规格 |
|------------|---------------|-----|--------|--------|---------|-------|--------|-----|---------|-------|-------|-------|-------|--------|----------|------|
| OREAS-170A | Manganese Ore | CRM | 4.44 | | 0.090 | | 6.49 | | 1.70 | 12.14 | 0.222 | | 58.17 | 0.276 | | 10g |
| OREAS-170B | Manganese Ore | CRM | 3.90 | | 0.270 | | 7.04 | | 1.80 | 11.95 | 0.329 | | 59.46 | 0.318 | | 10g |
| SARM 16 | Manganese Ore | CRM | (0.3) | 0.60 | 4.70 | 11.48 | | | 0.02 | | 0.76 | 49.17 | | (0.03) | | 100g |
| SARM 17 | Manganese Ore | CRM | 0.24 | (0.08) | (14.4) | 4.27 | | | 0.09 | | 3.03 | 38.81 | | 0.09 | | 100g |
| NIST-25D | Manganese Ore | CRM | (5.33) | (0.21) | (0.052) | | (3.91) | (1) | (0.928) | | | 51.78 | | | (14.283) | 60g |

| 编号 | P | P2O5 | S | SiO2 | TiO2 | Zn |
|------------|---|-------|---|-------|-------|----|
| OREAS-170A | | 0.152 | | 11.34 | 0.179 | |

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|------------|-------|-------|--------|------|---------|
| OREAS-170B | | 0.195 | | 9.49 | 0.189 |
| SARM 16 | 0.033 | | 0.17 | 5.04 | 0.0364 |
| SARM 17 | 0.018 | | (0.01) | 4.69 | 0.0043 |
| NIST-25D | | 0.251 | | 2.54 | (0.136) |

| 编号 | 描述 | 种类 | Al2O3 | As | Au | B | Ba | BaO | Be | Bi | C | C (org) | CO2 | CaO | Cd | 规格 |
|------------|---------------------|-----|-------|----------|-------------|----------|----------|--------|-----------|-----------|----------|---------|------|--------|-----------|------|
| UG-NOD-A-1 | Manganese nodule | CRM | 3.87 | | | | | 0.1670 | | | | | | 15.4 | | 30g |
| UG-NOD-P-1 | Manganese nodule | CRM | 4.8 | | | | | 0.3350 | | | | | | 3.1 | | 30g |
| GSJ-JMN-1 | Manganese nodule | CRM | 4.30 | 0.00754 | 0.000000095 | (0.0138) | 0.1714 | | (0.00078) | (0.00043) | (0.0905) | | | 2.91 | (0.00155) | 100g |
| CGL-127 | Manganese ore | CRM | 9.27 | (0.0131) | | | (0.9384) | | (0.0004) | | | | | (1.63) | | 100g |
| VS-5373-90 | Manganese ore (MnH) | CRM | 5.21 | 0.011 | 0.00000008 | | 0.19 | | | | | 0.18 | 0.39 | 2.77 | 0.0009 | 50g |
| VS-5374-90 | Manganese ore | CRM | 5.68 | 0.006 | 0.00000005 | | 0.18 | | | | | 0.18 | 0.43 | 2.82 | 0.0017 | 50g |
| VS-5375-90 | Manganese ore | CRM | 5.46 | 0.017 | 0.00000010 | | 0.17 | | | | | 0.22 | 0.60 | 3.01 | 0.0005 | 50g |
| VS-5404-90 | Manganese ore | CRM | 5.28 | | | | | | | | | | | 4.68 | | 50g |
| VS-5406-90 | Manganese ore | CRM | 9.78 | | | | 2.65 | | | | | | | 1.29 | 1.96 | 50g |
| VS-P12/2 | Manganese ore | CRM | 1.87 | | | | | 0.53 | | | | | | 2.02 | | 100g |
| VS-P13/3 | Manganese ore | CRM | | | | | | | | | | | | | | 100g |

| 编号 | Ce | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | Fe | Fe (tot)* | Ga | Gd |
|------------|----------|-----|--------|----------|----------|----------|-----------|-----------|-----------|----|------------|-----------|-----------|
| UG-NOD-A-1 | (0.0730) | | 0.3110 | | | 0.1100 | (0.0023) | (0.0012) | (0.0005) | | 15.6 | | (0.0026) |
| UG-NOD-P-1 | (0.0290) | | 0.2240 | | | 1.1500 | (0.0027) | (0.0012) | (0.00075) | | 8.3 | | (0.0028) |
| GSJ-JMN-1 | 0.0277 | | 0.1732 | 0.00266 | 0.000060 | 1.1132 | (0.00283) | 0.00146 | 0.00076 | | 14.40 | (0.00371) | (0.00298) |
| CGL-127 | (0.0261) | | 0.0316 | (0.0086) | | (0.0127) | (0.00149) | (0.00094) | (0.0003) | | 19.51 | (0.0023) | (0.0015) |
| VS-5373-90 | 0.05 | 0.8 | 0.31 | 0.0017 | | 0.51 | | | | | 17.21 | | |
| VS-5374-90 | 0.020 | 0.7 | 0.220 | 0.0018 | | 1.01 | | | | | 9.28 | | |
| VS-5375-90 | 0.09 | 0.9 | 0.47 | 0.0019 | | 0.22 | | | | | 24.87 | | |
| VS-5404-90 | | | 0.0086 | | | | | | | | 6.68 | | |
| VS-5406-90 | | | | | | | | | | | 2.43 | | |
| VS-P12/2 | | | | | | | | | | | 1.56 (tot) | | |
| VS-P13/3 | | | | | | | 0.0219 | | | | | | |

| 编号 | Ge | H2O+ | Hf | Ho | K2O | La | Li | LOI | Lu | MgO | Mn | MnO | MnO2 |
|------------|---------|--------|-----------|-----------|---------|----------|-----------|--------|-----------|------|-------------|-------------|-------|
| UG-NOD-A-1 | | | | | 0.6 | (0.0120) | | | (0.00022) | 4.76 | | 23.9 | |
| UG-NOD-P-1 | | | | | 1.2 | (0.0104) | | | (0.00018) | 3.3 | | 37.6 | |
| GSJ-JMN-1 | | (7.90) | (0.00062) | (0.00058) | 0.94 | 0.0122 | (0.00717) | | 0.00021 | 3.12 | | 33.09 | |
| CGL-127 | | | (0.00037) | (0.00033) | (0.017) | (0.0088) | | (6.41) | (0.00012) | 0.79 | | 45.9 | |
| VS-5373-90 | | | | | 1.18 | 0.015 | 0.007 | 14.8 | | 2.74 | | 29.91 (tot) | 35.8 |
| VS-5374-90 | | | | | 1.27 | 0.009 | 0.014 | 15.3 | | 3.40 | | 35.09 (tot) | 41.7 |
| VS-5375-90 | | | | | 0.83 | 0.014 | 0.004 | 13.8 | | 2.24 | | 25.16 (tot) | 31.1 |
| VS-5404-90 | 0.00034 | | | | 0.83 | | | | | 0.45 | 34.12 | | 48.66 |
| VS-5406-90 | 0.00049 | | | | 4.99 | | | | | 0.74 | 15.98 | | 14.40 |
| VS-P12/2 | | | | | | | | | | 1.16 | 43.24 (tot) | | 52.4 |
| VS-P13/3 | | | | | | | | | | | | | |

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Manganese ore continued 锰矿石

| 编号 | Mo | Na2O | Nb | Nd | Ni | P | P2O5 | Pb | PbO | Pd | Pr | Pt | Rb |
|------------|--------|------|----|----------|--------|---|------|--------|-----|----|----|----|----|
| UG-NOD-A-1 | 0.0448 | 1.0 | | (0.0094) | 0.6360 | | 1.40 | 0.0846 | | | | | |
| UG-NOD-P-1 | 0.0760 | 2.2 | | (0.0120) | 1.3400 | | 0.46 | 0.0560 | | | | | |

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|------------|--------|---------|-----------|-----------|--------|-------|------|----------|--|-----------|-------------|-----------|
| GSJ-JMN-1 | 0.0318 | 2.80 | (0.00276) | 0.0137 | 1.2632 | | 0.54 | 0.0430 | | (0.00314) | (0.0000110) | 0.00109 |
| CGL-127 | | (0.086) | (0.00157) | (0.00787) | 0.0377 | | 0.76 | (0.0038) | | (0.00163) | | (0.00058) |
| VS-5373-90 | 0.0043 | 2.61 | 0.0048 | 0.015 | 0.84 | | 0.65 | 0.017 | | | 0.000019 | 0.0016 |
| VS-5374-90 | 0.052 | 2.94 | 0.0020 | 0.008 | 1.37 | | 0.68 | 0.040 | | | 0.000010 | 0.0021 |
| VS-5375-90 | 0.033 | 2.40 | 0.009 | 0.014 | 0.422 | | 0.80 | 0.098 | | 0.0000003 | 0.000021 | 0.0010 |
| VS-5404-90 | | 0.38 | | | 0.013 | 0.027 | | 0.15 | | | | |
| VS-5406-90 | | 0.70 | | | | 0.043 | | 0.23 | | | | |
| VS-P12/2 | | | | | | 0.209 | | | | | | |
| VS-P13/3 | 58.88 | | 90.4 | | | 0.101 | | 0.196 | | 0.0013 | | |

| 编号 | S | Sb | Sc | SiO2 | Sm | Sn | Sr | Ta | Tb | Th | TiO2 | Tm | U |
|------------|----------|-----------|-----------|-------|-----------|-----------|--------|------------|-----------|----------|------|-----------|-----------|
| UG-NOD-A-1 | | | | 3.81 | (0.0021) | | 0.1750 | | | | 0.53 | | |
| UG-NOD-P-1 | | | | 13.9 | (0.0030) | | 0.0680 | | | | 0.5 | | |
| GSJ-JMN-1 | (0.0940) | 0.00375 | (0.00130) | 14.11 | 0.00302 | (0.00044) | 0.0792 | (0.000064) | 0.00048 | 0.00117 | 1.06 | 0.00021 | 0.00050 |
| CGL-127 | | (0.00071) | (0.00216) | 10.84 | (0.00137) | (0.00029) | 0.1354 | (0.000059) | (0.00023) | (0.0009) | 0.53 | (0.00013) | (0.00039) |
| VS-5373-90 | 0.12 | | 0.0012 | 16.20 | 0.004 | | 0.090 | | | 0.0031 | 1.47 | | 0.0005 |
| VS-5374-90 | 0.10 | | 0.0011 | 16.60 | 0.0022 | | 0.064 | | | 0.0017 | 0.74 | | 0.0004 |
| VS-5375-90 | 0.16 | | 0.0013 | 14.50 | 0.003 | | 0.11 | | | 0.0038 | 1.91 | | 0.0008 |
| VS-5404-90 | 0.023 | | | 15.69 | | | | | | | 0.27 | | |
| VS-5406-90 | 0.22 | | | 47.66 | | | | | | | 0.31 | | |
| VS-P12/2 | 0.029 | | | 15.00 | | | | | | | | | |
| VS-P13/3 | | | 0.07 | | | | 2.01 | | | | | | |

| 编号 | V | W | Y | Yb | Zn | Zr |
|------------|----------|-----------|--------|------------|--------|--------|
| UG-NOD-A-1 | 0.0770 | | | (0.0014) | 0.0590 | |
| UG-NOD-P-1 | 0.0570 | | | (0.0013) | 0.1600 | |
| GSJ-JMN-1 | 0.0424 | (0.00453) | 0.0111 | 0.00138 | 0.1068 | 0.0344 |
| CGL-127 | (0.0241) | (0.00128) | 0.0104 | (0.000797) | 0.0182 | 0.0208 |
| VS-5373-90 | 0.040 | | 0.016 | 0.0021 | 0.077 | 0.060 |
| VS-5374-90 | 0.043 | | 0.011 | 0.0013 | 0.12 | 0.032 |
| VS-5375-90 | 0.048 | | 0.014 | 0.0014 | 0.058 | 0.060 |
| VS-5404-90 | | | | | | |
| VS-5406-90 | | | | | | |
| VS-P12/2 | | | | | | |
| VS-P13/3 | | | | | | |

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| 编号 | 描述 | 种类 | Al2O3 | CaO | Co | Cr | Cu | FeO | Fe2O3 | Hg | K2O | LOI | MgO | MnO | Na2O | 规格 |
|-------------|-------------|-----|-------|-------|--------|-------|---------|------|-------|--------|------|-------|------|------|------|------|
| USZ 43-2006 | Mercury ore | CRM | 0.53 | 17.39 | 0.0047 | 0.21 | 0.00077 | 0.49 | 4.66 | 0.0689 | 0.03 | 25.28 | 9.93 | 0.29 | 0.07 | 100g |
| 编号 | | | Ni | SiO2 | Sr | TiO2 | V | | | | | | | | | |
| USZ 43-2006 | | | 0.10 | 41.01 | 0.0382 | 0.018 | 0.0038 | | | | | | | | | |

Molybdenum ore

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | Bi | CaO | Cd | Ce | Cr | Cu | Dy | Er | Eu | F | 规格 |
|--------------|----------------|-----|----------|-------|---------|---------|-------|----------|---------|----------|---------|---------|---------|----------|------|-----|
| NIM-GBW07238 | Molybdenum ore | CRM | 0.000009 | 3.46 | 0.00016 | 0.00022 | 31.44 | 0.000012 | 0.00208 | (0.0024) | 0.00936 | 0.00018 | 0.00010 | 0.000059 | 4.08 | 50g |
| NIM-GBW07239 | Molybdenum ore | CRM | 0.000012 | 7.27 | 0.00010 | 0.00010 | 23.03 | 0.000009 | 0.00603 | (0.0035) | 0.00486 | 0.00058 | 0.00032 | 0.00015 | 1.33 | 50g |

| 编号 | | | Fe2O3 | Ga | Gd | Ge | Ho | In | K2O | La | Li | Lu | MgO | MnO | Mo |
|--------------|--|--|-------|---------|---------|---------|----------|---------|-------|---------|-----------|----------|------|------|------|
| NIM-GBW07238 | | | 21.34 | 0.00251 | 0.00019 | 0.00190 | 0.000036 | 0.00029 | 0.046 | 0.00071 | (0.00032) | 0.000016 | 0.86 | 1.40 | 1.51 |
| NIM-GBW07239 | | | 14.66 | 0.00231 | 0.00058 | 0.00124 | 0.00012 | 0.00013 | 0.82 | 0.00374 | (0.0013) | 0.000041 | 1.83 | 1.49 | 0.11 |

| 编号 | | | Na2O | Nd | Ni | Pb | Pr | Re | S | Sb | Sc | Se | SiO2 | Sm | Sn |
|--------------|--|--|-------|---------|---------|---------|---------|------------|------|----------|---------|----------|-------|---------|---------|
| NIM-GBW07238 | | | 0.075 | 0.00113 | 0.00178 | 0.00187 | 0.00030 | (0.000035) | 1.64 | 0.00012 | 0.00034 | 0.00021 | 34.10 | 0.00021 | 0.00867 |
| NIM-GBW07239 | | | 0.77 | 0.00298 | 0.00209 | 0.00261 | 0.00074 | (0.000012) | 0.48 | 0.000026 | 0.00084 | 0.000027 | 46.67 | 0.00064 | 0.00332 |

| 编号 | | | Tb | Te | Th | TiO2 | Tl | Tm | W | Y | Yb | Zn |
|--------------|--|--|----------|----------|---------|------|----------|----------|------|---------|---------|---------|
| NIM-GBW07238 | | | 0.000034 | 0.000040 | 0.00023 | 0.13 | 0.000006 | 0.000014 | 0.36 | 0.00114 | 0.00010 | 0.00655 |
| NIM-GBW07239 | | | 0.000098 | 0.000014 | 0.00097 | 0.36 | 0.000021 | 0.000044 | 0.10 | 0.00342 | 0.00028 | 0.012 |

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | Bi | C | Ca | CaO | Cr | Cr2O3 | Cu | CuO | Fe | Fe2O3 | 规格 |
|-------------|------------------|-----|----------|-------|---------|---------|---------|--------|-------|----------|-------|--------|-------|---------|-------|------|
| DH-SX47-06 | Molybdenum ore | RM | | 1.178 | | | | 0.016 | 0.644 | | | | 0.106 | | 3.83 | 100g |
| DH-SX47-07 | Molybdenum ore | RM | | 0.702 | | | | 0.040 | 1.61 | | 0.004 | | 0.504 | | 1.80 | 100g |
| DH-SX47-08 | Molybdenum ore | CRM | | 0.959 | | | | 0.054 | 0.99 | | 0.38 | | 0.402 | | 1.96 | 100g |
| NIST-333A | Molybdenum ore | CRM | (0.0013) | | (0.015) | (0.003) | | (0.12) | | (0.005) | | 0.0600 | | (1.022) | | 60g |
| NIST-423 | Molybdenum ore | CRM | (0.0029) | | | (0.006) | (0.025) | (0.10) | | (0.0034) | | 0.0640 | | 1.708 | | 60g |
| CGL-USZ5-88 | Mo ore (CGL 202) | CRM | | | | | | | | | | 1.35 | | | | 100g |
| NCS DC93010 | Molybdenum ore | CRM | | | 0.016 | | | | 0.46 | | | 0.26 | | | | 50g |

| 编号 | | | Ins.Res. | K | K2O | Mg | MgO | Mn | MnO | Mo | Na | Na2O | P | Pb | PbO |
|-------------|--|--|----------|--------|-------|--------|-------|---------|-------|-------|--------|-------|-------|----------|-------|
| DH-SX47-06 | | | | | 0.407 | | 0.207 | | 0.036 | 57.55 | | 1.009 | | | 0.053 |
| DH-SX47-07 | | | | | 0.182 | | 0.117 | | 0.008 | 61.08 | | 0.045 | | | |
| DH-SX47-08 | | | | | 0.188 | | 0.109 | | 0.009 | 59.97 | | 0.042 | | | |
| NIST-333A | | | (3.767) | (0.06) | | (0.02) | | (0.002) | | 54.86 | (0.01) | | | (0.0111) | |
| NIST-423 | | | 7.69 | | | (0.10) | | (0.009) | | 58.68 | (0.2) | | | 0.0433 | |
| CGL-USZ5-88 | | | | | | | | | | 51.6 | | | 0.014 | | |
| NCS DC93010 | | | | | | | | | | 40.83 | | | 0.013 | 0.46 | |

| 编号 | | | Re | S | Sb | SiO2 | SrO | TiO2 | V | V2O5 | Zn | ZnO |
|------------|--|--|----|-------|----|------|-------|-------|---|-------|----|-------|
| DH-SX47-06 | | | | | | | | | | | | |
| DH-SX47-07 | | | | 0.050 | | 7.52 | | 0.092 | | | | |
| DH-SX47-08 | | | | 0.069 | | 4.38 | | 0.040 | | | | 0.064 |
| NIST-333A | | | | 0.124 | | 5.53 | 0.009 | 0.048 | | 0.010 | | 0.018 |

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| | | | | | | |
|-------------|---------|---------|----------|-------|----------|---------|
| NIST-423 | (0.035) | (37.7) | (0.001) | | (0.0014) | (0.002) |
| CGL-USZ5-88 | (0.004) | (0.063) | (0.0024) | | (0.0023) | (0.017) |
| NCS DC93010 | 0.05 | | | 4.50 | | |
| | | | | 22.07 | | |

Nickel ore

| 编号 | 描述 | 种类 | Cu | Fe | Ir | Ni | Os | Pd | Pt | Rh | Ru | 规格 |
|------------|---------------------|-----|-------|------|----------|------|----------|-------|---------|----------|----------|-------|
| VS-1702-86 | Nickel concentrate | CRM | | | 0.000011 | 5.4 | 0.000006 | 0.003 | 0.00086 | 0.000098 | 0.000034 | 100 g |
| IGS- 21 | Nickel ore (Norite) | CRM | 0.798 | 23.4 | | 1.97 | | | | | | 50 g |

| 编号 | 描述 | 种类 | Al | As | B | Ba | Bi | C | Ca | Cd | Co | Cr | Cu | Fe | Ga | 规格 |
|----------|----------------|-----|-------|------------|----------|---------|----------|--------|---------|------------|---------|---------|----------|--------|-----------|-------|
| NIST-671 | Nickel oxide 1 | CRM | 0.009 | (0.005945) | | | 0.000007 | | | (0.00007) | 0.31 | 0.025 | 0.2 | 0.39 | (0.00008) | 25 g |
| NIST-672 | Nickel oxide 2 | CRM | 0.004 | | | | 0.00003 | 0.004 | | (0.00017) | 0.55 | 0.003 | 0.018 | 0.079 | (0.00004) | 25 g |
| NIST-673 | Nickel Oxide 3 | CRM | 0.001 | (0.4 ppm) | | | 0.000006 | | | (0.000005) | 0.016 | 0.0003 | 0.002 | 0.029 | (0.00001) | 25 g |
| BAM-RS 5 | Nickel oxide | CRM | | <0.00002 | (0.0002) | <0.0001 | (0.0001) | 0.0014 | 0.00022 | <0.00002 | <0.0002 | 0.00161 | 0.000153 | 0.0041 | <0.00005 | 100 g |

| 编号 | In | K | Li | Mg | Mn | Mo | Na | NiO | Pb | S | Sb | Se | Si |
|----------|----------|---------|----------|---------|---------|---------|---------|------|---------|----------|-----------|---------|----------|
| NIST-671 | | | | 0.03 | 0.13 | | | 76.6 | 0.0016 | | (0.00004) | 0.0002 | 0.047 |
| NIST-672 | | | | 0.02 | 0.095 | | | 77.1 | 0.0038 | | (0.00005) | 0.00004 | 0.11 |
| NIST-673 | | | | 0.003 | 0.0037 | | | 77.7 | 0.00035 | | (0.00005) | 0.00002 | 0.006 |
| BAM-RS 5 | (0.0001) | <0.0002 | (0.0002) | <0.0001 | <0.0001 | <0.0005 | <0.0002 | | <0.0002 | (0.0004) | (0.00001) | <0.0001 | (0.0005) |

| 编号 | Sn | Sr | Te | Ti | Tl | V | W | Zn | Zr |
|----------|-----------|----------|-----------|----------|-----------|---------|----------|-----------|----------|
| NIST-671 | (0.00027) | | (0.00002) | 0.024 | (0.00001) | | | (0.016) | |
| NIST-672 | (0.0004) | | (0.00002) | 0.009 | (0.00001) | | | (0.014) | |
| NIST-673 | (0.00005) | | (0.00004) | 0.003 | (0.00001) | | | (0.00017) | |
| BAM-RS 5 | (0.0001) | (0.0001) | (0.00002) | (0.0002) | <0.00005 | <0.0001 | (0.0001) | 0.00034 | (0.0001) |

UZONGLAB

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Niobium ore 铌矿石

| 编号 | 描述 | 种类 | Al | Al2O3 | BaO | CO2 | Ca | CaO | CeO2 | F | Fe | H2O loss | K | K2O | La2O3 | 规格 |
|------------|-------------|-----|-------|-------|--------|-------|--------|-------|-------|------|-------|----------|-------|-------|-------|------|
| CAN OKA-1 | Niobium Ore | CRM | (0.9) | | | | (31.3) | | | | (2.8) | | (0.3) | | | 200g |
| DH-SX18-01 | Niobium Ore | RM | | 2.61 | 0.154 | 29.95 | | 26.86 | 0.096 | | 5.68 | 1.12 | | 1.38 | 0.042 | 100g |
| DH-SX18-02 | Niobium Ore | RM | | 2.67 | 0.162 | 30.16 | | 26.96 | 0.098 | | 5.72 | 1.18 | | 1.41 | 0.041 | 100g |
| DH-SX18-03 | Niobium Ore | RM | | 0.291 | 0.201 | 0.097 | | 13.02 | 0.556 | 3.65 | 3.50 | 0.664 | | 0.233 | 0.153 | 100g |
| DH-SX18-04 | Niobium Ore | RM | | 1.31 | 0.0550 | 28.27 | | 28.20 | 0.175 | | 7.86 | 1.15 | | 0.522 | 0.089 | 100g |
| DH-SX18-05 | Niobium Ore | RM | | 2.07 | 0.055 | 27.13 | | 27.16 | 0.128 | | 7.37 | 1.25 | | 1.03 | 0.059 | 100g |
| DH-SX18-06 | Niobium Ore | RM | | 0.945 | 0.046 | 36.82 | | 27.77 | 0.086 | | 5.44 | 0.65 | | 0.525 | 0.040 | 100g |

| 编号 | LOI | Mg | MgO | Mn | MnO | Na | Na2O | Nb | Nb2O5 | Nd2O3 | P | P2O5 | Pb |
|------------|--------|-------|-------|-------|-------|-------|-------|------|-------|--------|-------|-------|-------|
| CAN OKA-1 | (31.9) | (1.3) | | (1.1) | | (0.2) | | 0.37 | | | (1.1) | | (1.1) |
| DH-SX18-01 | | | 13.53 | | 0.825 | | 0.142 | | 0.696 | 0.051 | | 3.84 | |
| DH-SX18-02 | | | 13.51 | | 0.827 | | 0.109 | | 0.200 | 0.049 | | 3.92 | |
| DH-SX18-03 | | | 0.136 | | 0.325 | | 5.28 | | 60.62 | 0.207 | | 0.102 | |
| DH-SX18-04 | | | 12.93 | | 0.803 | | 0.146 | | 1.32 | 0.0722 | | 5.20 | |
| DH-SX18-05 | | | 12.48 | | 0.794 | | 0.173 | | 0.973 | 0.059 | | 5.78 | |
| DH-SX18-06 | | | 16.16 | | 1.12 | | 0.061 | | 0.095 | 0.038 | | 1.75 | |

| 编号 | S | Si | SiO2 | SnO2 | Sr | SrO | Ta2O5 | ThO2 | TiO2 | U3O8 | V2O5 | Y2O3 | Zn |
|------------|-------|-------|------|--------|-------|-------|---------|-------|-------|---------|---------|---------|---------|
| CAN OKA-1 | (0.6) | (2.4) | | | (1.0) | | | | | | | | (0.005) |
| DH-SX18-01 | 0.680 | | 8.75 | | | 0.123 | 0.005 | 0.018 | 0.266 | 0.002 | 0.028 | 0.017 | |
| DH-SX18-02 | 0.616 | | 8.91 | | | 0.116 | 0.002 | 0.010 | 0.237 | 0.002 | 0.027 | 0.016 | |
| DH-SX18-03 | 0.051 | | 1.91 | | | 1.20 | 0.273 | 0.770 | 4.26 | 0.202 | 0.073 | 0.085 | |
| DH-SX18-04 | 1.02 | | 5.18 | 0.0014 | | 0.217 | 0.0048 | 0.025 | 0.287 | 0.0032 | 0.0431 | 0.0213 | |
| DH-SX18-05 | 0.899 | | 7.82 | | | 0.164 | (0.004) | 0.032 | 0.295 | (0.007) | 0.046 | 0.035 | |
| DH-SX18-06 | 0.798 | | 3.38 | | | 0.274 | (0.001) | 0.010 | 0.089 | (0.002) | (0.009) | (0.009) | |

| 编号 | ZnO | ZrO2 |
|------------|--------|-------|
| CAN OKA-1 | | |
| DH-SX18-01 | 0.043 | 0.094 |
| DH-SX18-02 | 0.039 | 0.074 |
| DH-SX18-03 | 0.001 | 0.847 |
| DH-SX18-04 | 0.0138 | 0.146 |
| DH-SX18-05 | 0.017 | 0.218 |
| DH-SX18-06 | 0.013 | 0.027 |

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Rare-Earth ore 稀土矿

| 编号 | 描述 | 种类 | Al2O3 | CaO | CeO2 | Cs2O | Dy2O3 | Er2O3 | Eu2O3 | F- | FeO | Fe (tot)* | Gd2O3 | H2O+ | 规格 |
|-------------|----------------|-----|---------|---------|---------|---------|---------|----------|----------|-------|---------|-----------|---------|------|------|
| NCS DC86309 | Rare-Earth ore | CRM | 19.04 | (0.033) | 0.00915 | 0.00056 | 0.00273 | (0.0016) | 0.00081 | 0.016 | (0.071) | 3.49 | 0.00317 | 6.64 | 100g |
| NCS DC86310 | Rare-Earth ore | CRM | 14.70 | (0.026) | 0.00217 | 0.00177 | 0.00563 | 0.00364 | 0.000036 | 0.034 | 0.054 | 1.15 | 0.00324 | 3.61 | 100g |
| NCS DC86311 | Rare-Earth ore | CRM | 14.65 | (0.031) | 0.00348 | 0.00178 | 0.036 | 0.022 | 0.00018 | 0.034 | (0.039) | 1.13 | (0.027) | 3.61 | 100g |
| NCS DC86312 | Rare-Earth ore | CRM | 19.00 | 0.029 | 0.023 | 0.00055 | 0.021 | 0.011 | 0.00750 | 0.014 | (0.072) | 3.46 | 0.026 | 6.64 | 100g |
| NCS DC86317 | Rare-Earth ore | CRM | 16.59 | (0.11) | 0.021 | 0.0148 | 0.12 | 0.068 | 0.000956 | 0.15 | 0.18 | 0.71 | 0.091 | 4.63 | 100g |
| NCS DC86318 | Rare-Earth ore | CRM | (14.26) | 0.29 | 0.053 | 0.00126 | 0.37 | 0.20 | 0.00219 | 0.017 | 0.20 | 2.24 | 0.25 | 3.60 | 100g |

| 编号 | Ho2O3 | K2O | La2O3 | Li2O | LOI | Lu2O3 | MgO | MnO | Na2O | Nd2O3 | P2O5 | Pr6O11 |
|-------------|---------|------|--------|---------|------|---------|--------|-------|-------|---------|----------|----------|
| NCS DC86309 | 0.00057 | 2.13 | 0.031 | 0.00403 | 6.73 | 0.00020 | 0.229 | 0.070 | 0.062 | 0.017 | 0.029 | 0.00492 |
| NCS DC86310 | 0.00120 | 4.98 | 0.0020 | 0.015 | 3.70 | 0.00055 | 0.077 | 0.017 | 0.158 | 0.00276 | (0.0027) | 0.00063 |
| NCS DC86311 | 0.00750 | 4.92 | 0.011 | 0.015 | 3.77 | 0.00304 | 0.080 | 0.016 | 0.155 | 0.022 | (0.0025) | (0.0045) |
| NCS DC86312 | 0.00409 | 2.11 | 0.277 | 0.00398 | 6.80 | 0.00136 | 0.231 | 0.069 | 0.064 | 0.186 | (0.029) | 0.054 |
| NCS DC86317 | (0.023) | 4.03 | 0.25 | 0.0396 | 5.42 | 0.00645 | 0.13 | 0.10 | 0.13 | 0.24 | (0.0073) | 0.066 |
| NCS DC86318 | (0.064) | 5.52 | 0.23 | 0.0121 | 5.43 | 0.030 | (0.11) | 0.052 | 0.66 | 0.40 | (0.020) | 0.089 |

| 编号 | Rb2O | REO | Sc2O3 | SiO2 | Sm2O3 | Tb4O7 | Th | TiO2 | Tm2O3 | Y2O3 | Yb2O3 |
|-------------|--------|-------|---------|-------|---------|---------|---------|---------|---------|---------|---------|
| NCS DC86309 | 0.012 | 0.092 | 0.00113 | 67.28 | 0.00338 | 0.00054 | 0.00245 | 0.537 | 0.00024 | (0.018) | 0.00141 |
| NCS DC86310 | 0.069 | 0.085 | 0.00095 | 74.55 | 0.00157 | 0.00082 | 0.00405 | 0.022 | 0.00057 | 0.057 | 0.00366 |
| NCS DC86311 | 0.067 | 0.486 | 0.00089 | 74.34 | 0.015 | 0.00577 | 0.00390 | (0.023) | 0.00316 | 0.303 | 0.022 |
| NCS DC86312 | 0.011 | 0.784 | 0.00118 | 66.72 | 0.033 | 0.00407 | 0.00236 | 0.530 | 0.00151 | 0.124 | 0.0100 |
| NCS DC86317 | 0.12 | 1.83 | 0.00101 | 70.92 | 0.066 | 0.019 | 0.00210 | (0.018) | 0.00829 | 0.80 | 0.051 |
| NCS DC86318 | 0.0404 | 4.30 | 0.00072 | 66.90 | 0.20 | 0.055 | 0.00670 | 0.17 | 0.031 | 2.16 | 0.21 |

| 编号 | 描述 | 种类 | Al2O3 | As | Au | Ba | Bi | CO2 | CaCO3 | CaF2 | CaO | Ce | Co | Cr | Cs | 规格 |
|----------------|--------------------------|-----|-------|----------|------------|--------|-----------|-------|--------|---------|-------|------|------------|------------|------------|------|
| CGL-USZ25-2006 | Rare-Earth ore (CGL 111) | CRM | 2.47 | 0.0156 | | 0.0917 | | 1.04 | | (32.90) | 25.51 | 2.90 | 0.003246 | | | 100g |
| CGL-USZ42-2006 | Rare-Earth ore (CGL 124) | CRM | 2.72 | 0.0224 | (0.000046) | 0.0307 | (0.00087) | 29.00 | | | 32.68 | 2.76 | 0.000789 | (0.003356) | (0.005455) | 100g |
| CGL-USZ44-2007 | Rare-Earth ore (CGL 126) | CRM | 10.93 | 0.004370 | | 0.0095 | | | (0.99) | (2.20) | 2.03 | 0.10 | (0.001331) | 0.0200 | 0.000105 | 100g |

| 编号 | Cu | Dy | Er | Eu | F | FeO | Fe2O3 | Ga | Gd | H2O | H2O- | H2O+ | Hf |
|----------------|----------|----------|------------|----------|--------|--------|-------|--------|----------|--------|--------|--------|--------|
| CGL-USZ25-2006 | 0.0128 | 0.0206 | 0.007950 | 0.0211 | (1.89) | 0.14 | 13.45 | | 0.0553 | | (0.67) | | |
| CGL-USZ42-2006 | 0.002737 | 0.005763 | (0.002388) | 0.008722 | (1.61) | (0.08) | 5.71 | | (0.0295) | (0.19) | | (2.03) | |
| CGL-USZ44-2007 | 0.0013 | 0.0165 | (0.0112) | 0.00083 | (0.92) | (0.36) | 3.38 | 0.0064 | 0.0117 | | (0.18) | (0.68) | 0.0400 |

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| 编号 | Ho | K2O | La | Li | LOI | Lu | MgO | MnO | Mo | Na2O | Nb | Nd | Ni |
|----------------|----------|------|--------|----------|-------|----------|--------|------|------------|------|--------|--------|------------|
| CGL-USZ25-2006 | 0.003660 | 0.91 | 1.93 | | 6.78 | 0.000764 | 0.50 | 0.14 | 0.002386) | 0.92 | | 0.88 | 0.007080 |
| CGL-USZ42-2006 | 0.000786 | 1.55 | 2.11 | 0.002178 | 30.56 | | 2.78 | 1.67 | 0.003440 | 0.25 | 0.0031 | 0.65 | 0.001318 |
| CGL-USZ44-2007 | 0.0037 | 3.70 | 0.0434 | 0.0037 | 1.64 | | (0.05) | 0.06 | (0.001260) | 3.46 | (0.17) | 0.0434 | (0.001040) |

| 编号 | P2O5 | Pb | Pr | Rb | REO | SO3 | Sc | SiO2 | Sm | Sn | Sr | Ta | Tb |
|----------------|--------|--------|--------|----------|------|--------|------------|-------|--------|--------|--------|--------|----------|
| CGL-USZ25-2006 | 19.26 | 0.11 | 0.28 | 0.0043 | 7.56 | 4.58 | | 14.86 | 0.09 | | 2.24 | | 0.005460 |
| CGL-USZ42-2006 | 0.22 | 0.16 | 0.23 | 0.006712 | 8.27 | (0.14) | (0.001517) | 11.86 | 0.0539 | | 0.49 | | (0.0045) |
| CGL-USZ44-2007 | (0.03) | 0.0149 | 0.0122 | 0.0641 | | | | 71.38 | 0.0120 | 0.0126 | 0.0158 | 0.0123 | 0.0025 |

| 编号 | Th | TiO2 | U | V | W | Y | Yb | Zn | Zr |
|----------------|--------|------|-----------|---------|------------|--------|----------|--------|----------|
| CGL-USZ25-2006 | 0.0217 | 0.15 | | 0.01386 | | 0.0959 | 0.005452 | 0.06 | |
| CGL-USZ42-2006 | 0.0946 | 0.20 | (0.00514) | 0.0115 | (0.001871) | 0.0167 | 0.001785 | 0.0469 | (0.0136) |
| CGL-USZ44-2007 | 0.0202 | 0.31 | 0.0057 | | 0.0088 | 0.1102 | 0.0123 | 0.0534 | 1.58 |

Silver ore 银矿石

| 编号 | 描述 | 种类 | Ag | 规格 |
|-------------|------------|-----|---------|-----|
| NCS DC90001 | Silver ore | CRM | 0.00469 | 50g |
| NCS DC90002 | Silver ore | CRM | 0.0112 | 50g |
| NCS DC90003 | Silver ore | CRM | 0.0298 | 50g |
| NCS DC90004 | Silver ore | CRM | 0.0446 | 50g |
| NCS DC90005 | Silver ore | CRM | 0.0559 | 50g |
| NCS DC90006 | Silver ore | CRM | 0.0732 | 50g |

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | CaO | Cu | Fe (tot)* | H2O- | H2O+ | Hg | K2O | LOI | MgO | MnO | 规格 |
|-------------|------------|-----|---------|---------|-------|--------|------|-----------|--------|--------|------------|--------|---------|--------|---------|-----|
| NCS DC29104 | Silver ore | CRM | 0.00503 | (14.61) | 0.027 | (3.25) | 0.19 | (11.51) | (0.30) | (2.42) | (0.000385) | (3.31) | (5.61) | (2.70) | (0.248) | 50g |
| NCS DC29105 | Silver ore | CRM | 0.01381 | (12.88) | 0.073 | (2.11) | 0.50 | (19.82) | (0.32) | (1.65) | (0.00101) | (3.08) | (8.92) | (1.24) | (0.382) | 50g |
| NCS DC29106 | Silver ore | CRM | 0.0199 | (11.70) | 0.078 | (1.95) | 0.68 | (23.60) | (0.35) | (1.62) | (0.00180) | (2.82) | (10.55) | (1.20) | (0.382) | 50g |

| 编号 | Na2O | P2O5 | Pb | S | Sb | SiO2 | TiO2 | Zn |
|-------------|--------|---------|---------|--------|-------|---------|---------|---------|
| NCS DC29104 | (1.18) | (0.152) | 0.00838 | (1.49) | 0.012 | (51.38) | (0.682) | 0.00849 |
| NCS DC29105 | (0.92) | (0.186) | 0.020 | (3.96) | 0.032 | (42.74) | (0.555) | 0.00676 |
| NCS DC29106 | (0.41) | (0.145) | 0.010 | (7.06) | 0.050 | (38.68) | (0.496) | 0.011 |

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | Bi | CaO | Cd | Cu | Fe2O3 | Fe (tot)* | K2O | MgO | MnO | Na2O | 规格 |
|--------------|----------------------|-----|----------|-------|------|------|------|--------|------|-------|-----------|------|------|--------|--------|------|
| CGL-USZ17-94 | Silver ore (CGL 108) | CRM | 0.034792 | 5.82 | | | 3.87 | | 0.44 | | 7.425 | 1.56 | 0.45 | (2.39) | (0.13) | 250g |
| CGL-USZ7-91 | Silver ore (CGL 104) | CRM | 0.0169 | | | | | 0.0015 | 0.46 | | | | | | | 250g |
| CGL-USZ8-91 | Silver ore (CGL 105) | CRM | 0.0331 | 2.11 | 0.53 | 0.11 | 0.25 | 0.0020 | 0.83 | 48.40 | | 0.53 | 1.48 | 2.77 | | 250g |
| CGL-USZ9-92 | Silver ore (CGL 106) | CRM | 0.0740 | | | | | | 2.25 | | | | | | | 250g |

| 编号 | P2O5 | Pb | SO3 | Sb | SiO2 | TiO2 | Zn |
|--------------|------|-------|-------|----|-------|------|------|
| CGL-USZ17-94 | 0.12 | 10.00 | 21.25 | | 42.08 | 0.30 | 8.72 |
| CGL-USZ7-91 | | 0.101 | | | | | 0.42 |

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|-------------|------|-------|------|------|-------|------|------|
| CGL-USZ8-91 | 0.54 | 0.13 | 6.85 | 0.50 | 17.80 | 0.12 | 0.59 |
| CGL-USZ9-92 | | 0.041 | | | | | 0.20 |

Sulfur ore 硫矿石

| 编号 | 描述 | 种类 | S | | | | | | | | | | | 规格 |
|-----------|-------------|-----|-------|--|--|--|--|--|--|--|--|--|--|-----|
| CAN-HCC-1 | Sulphur Ore | CRM | 33.92 | | | | | | | | | | | 50g |
| CAN-INM-1 | Sulphur Ore | CRM | 22.17 | | | | | | | | | | | 50g |

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | B | BaO | CaO | Cd | Co | Cr | Cs | Cu | Eu | Fe | 规格 |
|--------|-------------|-----|-------------|-------|------------|-------------|-------|------|------------|------------|-------------|-------------|------|-------------|------|------|
| UN MII | Sulphur Ore | CRM | (0.0000012) | 10.63 | 0.00000901 | (0.0000005) | 0.049 | 0.49 | 0.00000767 | 0.00000223 | (0.0000012) | (0.0000003) | 0.21 | (0.0000003) | 6.79 | 100g |

| 编号 | Ga | Hf | K2O | La | LOI | MgO | MnO | Mo | Na2O | Ni | P2O5 | Pb | Rb |
|--------|-------------|-------------|------|-------------|------|------|------|-------------|------|------------|------|-----------|-------------|
| UN MII | (0.0000008) | (0.0000003) | 2.22 | (0.0000003) | (10) | 2.06 | 0.11 | (0.0000003) | 0.93 | 0.00000329 | (12) | 0.0000868 | (0.0000005) |

| 编号 | S | Sb | Sc | SiO2 | Sr | Ta | Th | TiO2 | U | V | W | Y | Yb |
|--------|-----|-------------|-------------|------|------------|-------------|-------------|------|-------------|------------|-------------|-------------|-------------|
| UN MII | (7) | (0.0000004) | (0.0000003) | (16) | 0.00000259 | (0.0000003) | (0.0000006) | 0.50 | (0.0000004) | 0.00000845 | (0.0000004) | (0.0000008) | (0.0000006) |

| 编号 | Zn | Zr |
|--------|------|-------------|
| UN MII | 1.79 | (0.0000008) |

Sulphur ore continued 硫矿石

| 编号 | 描述 | 种类 | Ag | As | Bi | Cd | Co | Cu | Fe | Ga | Ge | In | Mn | Ni | Pb | 规格 |
|-------------|-------------|-----|----------|-----------|---------|----------|-----------|---------|------------|-----------|-----------|-----------|---------|---------|-----------|-----|
| NCS DC71307 | Sulphur ore | CRM | 0.000059 | (0.00144) | 0.00029 | 0.000071 | (0.00039) | 0.0431 | 46.08 | 0.000044 | (0.00002) | | 0.00289 | 0.00340 | (0.00234) | 10g |
| NCS DC71308 | Sulphur pre | CRM | 0.0846 | (0.00031) | 0.00161 | 0.00202 | 0.00751 | 33.30 | 30.30 | (0.00003) | | (0.00666) | 0.00475 | 0.00413 | 0.0128 | 10g |
| NCS DC71309 | Sulphur pre | CRM | 0.97 | 0.00053 | 0.00014 | 0.00165 | (0.00004) | 0.00624 | 0.00000127 | (0.00003) | 0.000147 | 0.000029 | | | 84.26 | 10g |
| NCS DC71310 | Sulphur pre | CRM | 0.00050 | (0.00033) | 0.00061 | 0.15 | 0.0491 | 0.10 | 2.14 | 0.0251 | 0.00060 | 0.00210 | 0.0169 | 0.00432 | 0.099 | 5g |

| 编号 | S | Sb | Se | Sn | Te | Tl | Zn |
|-------------|-------|-----------|-----------|-----------|------------|----------|--------|
| NCS DC71307 | 52.72 | 0.00011 | 0.00058 | (0.00027) | 0.000095 | | 0.0219 |
| NCS DC71308 | 34.69 | (0.00027) | 0.00483 | (0.00058) | 0.00104 | | 0.30 |
| NCS DC71309 | 13.30 | 0.43 | | 0.11 | (0.000007) | 0.000065 | 0.0533 |
| NCS DC71310 | 32.33 | 0.0249 | (0.00030) | (0.00032) | (0.00003) | | 62.51 |

| 编号 | 描述 | 种类 | Ag | Al | As | Au | Ba | Bi | C | CO2 | Ca | Cd | Co | Cr | Cu | 规格 |
|------------|-------------|-----|-----------|------|---------|------------|----------|----------|--------------|--------|------|----------|---------|----------|--------|------|
| CAN-RTS-1 | Sulphur pre | CRM | (<0.0003) | 4.26 | 0.00082 | (0.000262) | (0.0123) | (0.0081) | (<0.9) (tot) | (<0.1) | 2.67 | 0.0002 | 0.00166 | (0.0050) | 0.0595 | 100g |
| CAN-RTS-3A | Sulphur pre | CRM | 0.00111 | 5.12 | 0.00182 | 0.0000561 | 0.0106 | 0.00313 | (0.04) | 0.04 | 2.14 | 0.000921 | 0.0143 | 0.0176 | 0.2353 | 100g |

| 编号 | Fe | H2O | K | LOI | Mg | Mn | Na | Ni | P | Pb | Pd | Pt | S |
|------------|-------|-------|--------|--------|-------|--------|--------|---------|--------|--------|-------------|-------------|------|
| CAN-RTS-1 | 19.64 | (1.5) | (0.52) | | 2.67 | (0.19) | (0.50) | 0.00227 | (0.06) | 0.0105 | (<0.000020) | (<0.000070) | 1.66 |
| CAN-RTS-3A | 20.49 | | 0.460 | (10.6) | 2.483 | 0.1585 | 0.684 | 0.00613 | 0.0446 | 0.0209 | (0.0000004) | | 9.59 |

| 编号 | SO4 | Sb | Se | Si | Sr | Ti | Zn | Zr |
|----|-----|----|----|----|----|----|----|----|
|----|-----|----|----|----|----|----|----|----|

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|------------|-------|----------|---------|----------|---------|--------|----------|--------|
| CAN-RTS-1 | 1.26 | (0.0040) | 19.89 | (0.0060) | (0.40) | 0.0553 | (0.0110) | |
| CAN-RTS-3A | (1.1) | 0.000283 | 0.00448 | 18.28 | 0.00447 | 0.351 | 0.2890 | 0.0078 |

Tantalum ore 钽矿石

| 编号 | 描述 | 种类 | Al | Ca | Fe | K | Mg | Mn | Na | Si | Sn | Ta | Ta2O5 | 规格 |
|-----------|--------------|-----|-------|-------|-------|-------|--------|--------|-------|--------|--------|--------|-------|------|
| CAN-TAN-1 | Tantalum ore | CRM | (8.2) | (0.5) | (0.2) | (1.5) | (0.02) | (0.02) | (4.6) | (33.4) | (0.01) | 0.2365 | 0.288 | 200g |

| 编号 | 描述 | 种类 | Al2O3 | BeO | CaO | CeO2 | Cs2O | Dy2O3 | Er2O3 | Eu2O3 | F | FeO | Fe (tot)* | Gd2O3 | H2O+ | 规格 |
|-------------|--------------|-----|-------|---------|-------|---------|----------|----------|----------|----------|------------|---------|-----------|----------|------|------|
| NCS DC86305 | Tantalum ore | CRM | 14.28 | 0.033 | 0.107 | 0.00036 | 0.064 | 0.000065 | 0.000027 | 0.000016 | 1.32 | (0.019) | 0.324 | 0.000084 | 1.52 | 100g |
| NCS DC86306 | Tantalum ore | CRM | 14.25 | 0.033 | 0.105 | 0.00165 | 0.066 | 0.00011 | 0.000056 | 0.000018 | 1.33 | (0.026) | 0.377 | 0.00012 | 1.52 | 100g |
| NCS DC86315 | Tantalum ore | CRM | 14.58 | 0.00125 | 0.71 | 0.00165 | 0.000814 | 0.000472 | 0.000265 | 0.000013 | 0.019 (F-) | 0.26 | 0.68 | 0.000347 | 0.56 | 100g |

| 编号 | Ho2O3 | K2O | La2O3 | Li2O | LOI | Lu2O3 | MgO | MnO | Na2O | Nb2O5 | Nd2O3 | P2O5 | Pr6O11 |
|-------------|----------|------|----------|--------|------|-----------|-------|-------|------|---------|----------|---------|----------|
| NCS DC86305 | 0.000013 | 2.04 | 0.00033 | 0.790 | 2.21 | 0.0000028 | 0.050 | 0.115 | 3.62 | 0.00423 | 0.00034 | 0.347 | 0.000086 |
| NCS DC86306 | 0.000022 | 2.01 | 0.00069 | 0.779 | 2.21 | 0.000015 | 0.048 | 0.144 | 3.68 | 0.43 | 0.00064 | 0.348 | 0.00022 |
| NCS DC86315 | 0.000088 | 4.11 | 0.000765 | 0.0106 | 0.61 | 0.000037 | 0.093 | 0.45 | 4.40 | 0.52 | 0.000784 | (0.040) | 0.000191 |

| 编号 | Rb2O | REO | Sc2O3 | SiO2 | Sm2O3 | Sn | Ta2O5 | Tb4O7 | TiO2 | Tm2O3 | W | Y2O3 | Yb2O3 |
|-------------|--------|---------|----------|-------|----------|------------|---------|----------|-------|----------|----------|---------|----------|
| NCS DC86305 | 0.244 | 0.00186 | 0.000064 | 75.06 | 0.000077 | (0.0052) | 0.00886 | 0.000014 | 0.027 | 0.040 | 0.00164 | 0.00037 | 0.000024 |
| NCS DC86306 | 0.241 | 0.00450 | 0.00061 | 74.98 | 0.00014 | (0.0063) | 0.070 | 0.000022 | 0.032 | 0.11 | 0.020 | 0.00053 | 0.000093 |
| NCS DC86315 | 0.0244 | 0.00810 | 0.000214 | 72.34 | 0.000248 | (0.000265) | 1.02 | 0.000072 | 0.039 | 0.000038 | 0.000214 | 0.00299 | 0.000237 |

Tin ore 锡矿石

| 编号 | 描述 | 种类 | Ag | Al | Al2O3 | As | Bi | Ca | Cu | F | Fe | Mn | Nb2O5 | Ni | Pb | 规格 |
|-----------------|-----------------|-----|-----------|------|--------|---------|----------|------|----------|------|--------|---------|--------|--------|---------|------|
| BCR-010 | Tin ore | CRM | | | (0.45) | (<0.10) | (<0.001) | | (<0.004) | | (0.70) | (<0.02) | (0.21) | | (0.001) | 225g |
| BAS-BCS-CRM 355 | Tin ore | CRM | | 4.12 | | 0.14 | 0.015 | 2.63 | 0.085 | 2.02 | 17.08 | | | 0.0040 | 0.012 | 100g |
| NIM-GBW07231 | Tin concentrate | CRM | 0.0025 | | | 0.574 | | | | | 21.33 | | | | 2.89 | 100g |
| NIM-GBW07232 | Tin concentrate | CRM | | | | 0.306 | | | 0.043 | | 9.53 | | | | 1.62 | 100g |
| NCS DC35008 | Tin ore | CRM | 0.0000198 | | | 0.084 | | | 0.037 | | 22.62 | | | | 2.07 | 60g |
| NCS DC35009 | Tin ore | CRM | | | 6.70 | 2.17 | 0.120 | | 1.09 | | | | | | 0.095 | 60g |
| NCS DC35011 | Tin ore | CRM | | | | 0.046 | | | 0.077 | | | | | | | 70g |
| NCS DC35012 | Tin ore | CRM | | | | 0.097 | | | 0.109 | | | | | | | 70g |

| 编号 | S | Sb | Si | SiO2 | Sn | Ta2O5 | Ti | TiO2 | W | WO3 | Zn |
|-----------------|-------|---------|------|--------|-------|---------|------|--------|------|---------|-------|
| BCR-010 | | (<0.01) | | (0.80) | 76.59 | (0.008) | | (0.84) | | (<0.02) | |
| BAS-BCS-CRM 355 | 0.50 | | 7.14 | | 31.42 | | 0.37 | | 0.35 | | 0.059 |
| NIM-GBW07231 | 0.183 | 0.024 | | | 45.80 | | | | | | 0.264 |
| NIM-GBW07232 | 0.090 | 0.016 | | 0.93 | | | | | | 0.182 | 0.120 |
| NCS DC35008 | | 0.013 | | | 0.125 | | | | | | 0.51 |
| NCS DC35009 | | | | 4.99 | 0.930 | | | | | | 1.49 |

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|-------------|-------|
| NCS DC35011 | 0.737 |
| NCS DC35012 | 3.98 |

Titanium ore 钛矿石

| 编号 | 描述 | 种类 | Al2O3 | Ba | C | CO2 | CaO | Ce | Co | Co3O4 | Cr | Cr2O3 | Cu | CuO | Dy | 规格 |
|-------------|----------------|-----|-------|----------|-------|-------|-------|-----------|--------|-------|--------|-------|----------|-------|------------|-------------|
| CGL-129 | Titanium ore | CRM | 9.79 | (0.0114) | | | 1.16 | (0.00027) | 0.0209 | | 0.3068 | | (0.0021) | | (0.000010) | 100g / 150g |
| DH-SX67-05 | Ilmenite | RM | 3.52 | | 0.149 | 0.061 | 0.890 | | | 0.024 | | 0.113 | | 0.016 | | 100g |
| NCS HC26619 | Titanium conc. | CRM | 0.65 | | 0.011 | | | | | | | | | | | 20g |
| VS-P31 | Ilmenite conc. | CRM | 1.99 | | | | | | | | | 2.59 | | | | 100g |

| 编号 | Eu | Fe | Fe2O3 | Fe (tot)* | Ga | Gd | H2O Loss | Hf | Ho | K2O | La | LOI | Lu |
|-------------|------------|-------|-------|-----------|----------|------------|----------|------------|------------|-------|------------|---------|------------|
| CGL-129 | (0.000014) | | | 61.86 | (0.0053) | (0.000012) | | (0.000094) | (0.000002) | 0.137 | (0.000140) | (-0.25) | (0.000002) |
| DH-SX67-05 | | 38.38 | | | | | 0.49 | | | 0.097 | | | |
| NCS HC26619 | | | 0.006 | | | | | | | | | | |
| VS-P31 | | 24.4 | | | | | | | | | | | |

| 编号 | MgO | Mn | MnO | Na2O | Nb | Nd | Ni | NiO | P2O5 | Pb | Pr | Rb | S |
|-------------|------|-------|-------|---------|------------|------------|--------|-------|-------|------------|------------|-----------|-------|
| CGL-129 | 3.05 | | 0.240 | (0.086) | (0.000597) | (0.000106) | 0.0306 | | 0.022 | (0.000120) | (0.000029) | (0.00024) | |
| DH-SX67-05 | 2.82 | 0.101 | | | | | | 0.036 | 0.031 | | | | 0.245 |
| NCS HC26619 | | | | | | | | | | | | | 0.006 |
| VS-P31 | | | | | | | | | 0.25 | | | | |

| 编号 | Sc | SiO2 | Sn | Sr | SrO | Tb | Th | TiO2 | U | V | V2O5 | Y | Zn |
|-------------|----------|------|----------|--------|-------|------------|------------|-------|------------|--------|-------|-----------|--------|
| CGL-129 | (0.0013) | 7.77 | (0.0003) | 0.0152 | | (0.000002) | (0.000028) | 14.88 | (0.000009) | 0.2818 | | (0.00015) | 0.0575 |
| DH-SX67-05 | | 5.53 | | | 0.013 | | | 32.97 | | | 0.291 | | |
| NCS HC26619 | | | | | | | | 98.21 | | | | | |
| VS-P31 | | 1.24 | | | | | | 56.5 | | | | | |

| 编号 | ZnO | Zr | ZrO2 |
|-------------|-------|---------|-------|
| CGL-129 | | 0.00354 | |
| DH-SX67-05 | 0.020 | | 0.049 |
| NCS HC26619 | | | |
| VS-P31 | | | |

Tungsten ore 钨矿石

| 编号 | 描述 | 种类 | W | 规格 |
|-----------|--------------|-----|-------|------|
| CAN BH-1 | Tungsten ore | CRM | 0.422 | 200g |
| CAN CT-1 | Tungsten ore | CRM | 1.04 | 200g |
| CAN TLG-1 | Tungsten ore | CRM | 0.083 | 200g |

| 编号 | 描述 | 种类 | Ag | Be | Bi | Cu | Fe | Mo | Pb | Sn | WO3 | Zn | 规格 |
|------------|--------------|-----|---------|--------|--------|-------|----|--------|------|--------|-------|------|------|
| VS-1710-79 | Tungsten ore | CRM | | | 0.146 | | | | | | 71.6 | | 100g |
| VS-1711-79 | Tungsten ore | CRM | | 0.0022 | 0.0044 | | | 0.0026 | | 0.0071 | 0.036 | | 100g |
| VS-1712-79 | Tungsten ore | CRM | 0.01503 | 0.021 | 1.30 | 0.077 | | 0.26 | 0.77 | 0.89 | 6.00 | 0.28 | 100g |
| VS-1713-79 | Tungsten ore | CRM | 0.00055 | 0.0058 | 0.015 | | | 0.011 | | 0.028 | 0.17 | | 100g |

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| 编号 | 描述 | 种类 | Ag | Al2O3 | As | Ba | Bi | CO2 | CaO | Cd | Ce | Co | Cr | Cs | Cu | 规格 |
|------------|--------------|-----|---------|-------|--------|-------|------|--------|-------|-------|-------|-------|----|----|----|------|
| VS-1714-79 | Tungsten ore | CRM | 0.00103 | | 0.089 | | | 0.041 | 0.113 | 1.04 | | | | | | 100g |
| VS-1715-79 | Tungsten ore | CRM | | 0.013 | 0.054 | 0.020 | | 0.026 | 0.049 | 0.068 | 0.60 | 0.038 | | | | 100g |
| VS-2039-81 | Tungsten ore | CRM | | | 0.023 | 0.27 | 2.47 | 0.0026 | | | 0.22 | | | | | 100g |
| VS-2040-81 | Tungsten ore | CRM | | | 0.0058 | 0.053 | 0.94 | 0.016 | | | 0.49 | | | | | 100g |
| VS-2041-81 | Tungsten ore | CRM | | | 0.0058 | 0.053 | 0.94 | 0.016 | | | 0.076 | | | | | 100g |
| VS-2042-81 | Tungsten ore | CRM | | | 0.0032 | 0.105 | 4.17 | 0.039 | | | 0.38 | | | | | 100g |

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | Ba | Bi | CO2 | CaO | Cd | Ce | Co | Cr | Cs | Cu | 规格 |
|--------------|--------------------|-----|---------|-------|----------|---------|--------|--------|-------|----------|---------|--------|-----------|----------|---------|------|
| NIM-GBW07240 | Tungsten ore | CRM | 0.00083 | 8.24 | 0.18 | | 0.011 | | 37.73 | 0.00261 | 0.0010 | | (0.00065) | (0.0036) | 0.79 | 50g |
| NIM-GBW07241 | Tungsten ore | CRM | 0.00018 | 11.15 | 0.00696 | | 0.068 | | 4.17 | 0.000094 | 0.00603 | | (0.0030) | (0.0041) | 0.096 | 50g |
| NIST-2430 | Scheelite ore | CRM | | | 0.002 | | 0.078 | | | | | | | | (0.01) | 100g |
| NIST-277 | Tungsten conc. | CRM | | | (0.0120) | | (0.05) | | | | | | | | (0.014) | 100g |
| CGL-USZ26-99 | W-Mo ore (CGL 112) | CRM | | 14.14 | 0.09 | (0.051) | 0.0067 | (0.56) | 1.95 | | | 0.0011 | (0.015) | (0.0073) | 0.022 | 100g |

| 编号 | Dy | Er | Eu | F | FeO | Fe2O3 | Fe (tot)* | Ga | Gd | Ge | H2O- | Ho | In |
|--------------|----------|----------|----------|------|------|-------|-----------|----------|---------|---------|--------|----------|---------|
| NIM-GBW07240 | 0.000046 | 0.000023 | 0.000015 | 9.91 | 7.79 | 7.79 | 0.00178 | 0.000064 | 0.00025 | 0.00025 | | 0.000011 | 0.00087 |
| NIM-GBW07241 | 0.00207 | 0.00131 | 0.000017 | 4.84 | 5.60 | 5.60 | 0.00165 | 0.00148 | 0.00112 | | | 0.00045 | 0.00013 |
| NIST-2430 | | | | | | | | | | | | | |
| NIST-277 | | | | | | | | | | | | | |
| CGL-USZ26-99 | | | | | 3.72 | | 5.59 | | | | (0.18) | | |

| 编号 | K2O | La | Li | LOI | Lu | MgO | MnO | Mo | Na2O | Nb | Nd | Ni | P |
|--------------|------|---------|--------|--------|----------|------|-------|----------|------|---------|----------|---------|---------|
| NIM-GBW07240 | 1.94 | 0.00050 | (0.02) | | 0.000006 | 1.45 | 0.97 | 0.00042 | 0.16 | | 0.00040 | 0.00041 | |
| NIM-GBW07241 | 1.58 | 0.00018 | (0.03) | | 0.00024 | 0.14 | 0.090 | 0.098 | 0.12 | | 0.000329 | 0.00028 | |
| NIST-2430 | | | | | | | | 0.22 | | | | | 0.017 |
| NIST-277 | | | | | | | | (0.0598) | | (1.018) | | | (0.034) |
| CGL-USZ26-99 | 4.32 | | (0.04) | (2.54) | | 2.04 | 0.12 | 0.079 | 2.13 | | | | 0.0035 |

| 编号 | Pb | Pr | Rb | Re | S | SO3 | Sb | Sc | Se | SiO2 | Sm | Sn | Sr |
|--------------|----------|---------|--------|------------|----------|--------|---------|---------|----------|-------|----------|---------|--------|
| NIM-GBW07240 | 0.26 | 0.00011 | (0.08) | (0.000012) | 3.12 | | 0.00051 | 0.00018 | 0.000039 | 13.27 | 0.000079 | 0.14 | |
| NIM-GBW07241 | 0.00812 | 0.00079 | (0.05) | (0.000008) | 1.90 | | 0.00031 | 0.00054 | 0.000096 | 71.27 | 0.00125 | 0.17 | |
| NIST-2430 | | | | | 0.26 | | (<0.01) | | | | | | |
| NIST-277 | (0.0676) | | | | (0.2668) | | (<0.01) | | | | | (0.53) | |
| CGL-USZ26-99 | 0.0076 | | 0.106 | | | (0.51) | (0.002) | | | 64.87 | | (0.016) | 0.0078 |

| 编号 | Tb | Te | Th | TiO2 | Tl | Tm | V | W | WO3 | Y | Yb | Zn | Zr |
|--------------|----------|----------|---------|-------|---------|----------|-------|------|-------|---------|----------|-------|--------|
| NIM-GBW07240 | 0.000015 | 0.000066 | 0.00022 | 0.079 | 0.00050 | 0.000004 | | 0.02 | | 0.00028 | 0.000028 | 0.29 | |
| NIM-GBW07241 | 0.00033 | 0.00029 | 0.00283 | 0.044 | 0.00018 | 0.00022 | | 0.22 | | 0.0128 | 0.00149 | 0.010 | |
| NIST-2430 | | | | | | | | | 70.26 | | | | |
| NIST-277 | | | | | | | | | 67.50 | | | | (<0.8) |
| CGL-USZ26-99 | | | | 0.82 | | | 0.010 | | 0.41 | | | 0.017 | 0.017 |

Zinc ore 锌矿石

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | Bi | CaO | Cd | Ce | Cr | Cu | Dy | Er | Eu | F | 规格 |
|--------------|----------|---------|----------|---------|----------|----------|------|---------|----------|----------|-------|----------|----------|----------|------|-----|
| NIM-GBW07237 | Zinc ore | CRM | 0.00135 | 2.80 | 0.00124 | 0.00564 | 1.91 | 0.00293 | 0.00023 | (0.0062) | 0.71 | 0.000049 | 0.000028 | 0.000006 | 1.20 | 50g |
| 编号 | Fe2O3 | Ga | Gd | Ge | Ho | In | K2O | La | Li | Lu | MgO | MnO | Mo | | | |
| NIM-GBW07237 | 3.50 | 0.00080 | 0.000031 | 0.00014 | 0.000013 | 0.000023 | 0.99 | 0.00013 | (0.0086) | 0.000008 | 0.082 | 0.026 | 0.00028 | | | |

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| 编号 | Na2O | Nd | Ni | Pb | Pr | Rb | S | Sb | Sc | Se | SiO2 | Sm | Sn |
|--------------|------|----------|---------|------|----------|----------|------|---------|----------|---------|-------|----------|---------|
| NIM-GBW07237 | 0.56 | 0.000092 | 0.00055 | 0.25 | 0.000030 | (0.0073) | 2.87 | 0.00011 | 0.000033 | 0.00023 | 82.95 | 0.000036 | 0.00061 |

| 编号 | Tb | Te | Th | TiO2 | Tl | Tm | W | Y | Yb | Zn |
|--------------|----------|----------|-----------|-------|----------|----------|---------|---------|----------|------|
| NIM-GBW07237 | 0.000010 | 0.000017 | (0.00011) | 0.017 | 0.000049 | 0.000005 | 0.00034 | 0.00045 | 0.000042 | 2.75 |

| 编号 | 描述 | 种类 | Ag | Al2O3 | Ca | CaO | Cd | Cl | Cu | F | Fe | Hg | Mg | MgO | Pb | 规格 |
|-----------|----------------------|-----|---------|-------|--------|-------|--------|-------|--------|--------|-------|------------|--------|-------|--------|------|
| BCR-109 | Zinc ore concentrate | CRM | | | | | 0.461 | | 0.946 | 0.0081 | 14.51 | 0.000096 | 0.020 | | 0.738 | 200g |
| BCR-110 | Zinc ore | CRM | | | | | 1.051 | | 1.628 | 0.0055 | 0.546 | 0.01484 | 0.136 | | 9.78 | 200g |
| IM KC8 | Zinc conc. | CRM | | 0.030 | | | 0.40 | | | | 0.88 | | | 1.21 | 2.20 | 150g |
| IM RB7 | Blended ore | CRM | | | | 24.35 | 0.033 | | | | 8.28 | | | 15.26 | (0.26) | 170g |
| IM RG8 | Galmel ore | CRM | | 0.9 | | 26.45 | 0.047 | | | | 6.34 | | | 12.16 | 0.84 | 130g |
| IM TC9 | Zinc oxide | CRM | | | | 6.96 | 0.0049 | 0.033 | | 0.055 | 5.64 | | | 3.50 | 3.77 | 220g |
| NIST-113B | Zinc ore | CRM | 0.04607 | | 0.8196 | | 0.7804 | | 0.2953 | | 2.077 | (0.000055) | 0.4460 | | 2.731 | 100g |

| 编号 | PbO | S | SiO2 | Zn | ZnO |
|-----------|--------|--------|-------|-------|--------|
| BCR-109 | | | | | |
| BCR-110 | | | | | |
| IM KC8 | | 29.58 | 0.14 | 59.52 | |
| IM RB7 | | (10.3) | (0.8) | 3.07 | |
| IM RG8 | (0.72) | 0.57 | 2.64 | 5.4 | (4.36) |
| IM TC9 | | 0.52 | 5.47 | 53.4 | |
| NIST-113B | | 30.032 | | 56.49 | |

| 编号 | 描述 | 种类 | Ag | Al | As | Au | Bi | C | Ca | Cd | Cl | Co | Cu | F | Hg | 规格 |
|-----------|------------|-----|---------|--------|--------|------------|----------|--------|----------|--------|---------|---------|-------|---------|----------|------|
| CAN-CZN-4 | Zinc conc. | CRM | 0.00514 | 0.0715 | 0.0356 | (0.000004) | (0.0010) | (0.09) | (0.0419) | 0.2604 | (0.003) | 0.00935 | 0.403 | (0.004) | 0.000454 | 200g |

| 编号 | In | Mg | Mn | Ni | Pb | S | Sb | Se | Si | Sn | Zn |
|-----------|---------|----------|---------|----------|--------|-------|----------|---------|-------|--------|-------|
| CAN-CZN-4 | (0.020) | (0.0352) | (0.009) | (0.0016) | 0.1861 | 33.07 | (0.0010) | 0.00867 | 0.295 | (0.05) | 55.24 |

Zinc ore continued 锌矿石

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | Ba | C (tot) | CaO | Cd | Co | Cr | Cu | Fe | Fe (tot)* | H2O- | 规格 |
|----|----|----|----|-------|----|----|---------|-----|----|----|----|----|----|-----------|------|----|
|----|----|----|----|-------|----|----|---------|-----|----|----|----|----|----|-----------|------|----|

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|-------------|----------|-----|----------|----------|----------|--------|--------|----------|----------|----------|----------|--------|--------|------|
| GSJ-JZN-1 | Zinc ore | CRM | 6.32 | (0.0099) | (0.0208) | (1.28) | 18.1 | (0.0114) | (0.0024) | (0.0021) | (0.0029) | 11.8 | (0.61) | 100g |
| NCS DC29111 | Zinc ore | CRM | 0.00129 | (9.96) | 0.0090 | | (1.15) | 0.019 | | | 0.020 | (2.62) | (0.34) | 50g |
| NCS DC29115 | Zinc ore | CRM | 0.000530 | (3.25) | 0.0095 | | (0.67) | 0.119 | | | 0.021 | (3.93) | (0.29) | 50g |
| NCS DC35004 | Zinc ore | CRM | | | 0.024 | | | 0.042 | | | 0.135 | 4.13 | | 80g |

| 编号 | H2O+ | Hg | K2O | Li | LOI | MgO | MnO | Na2O | Ni | P2O5 | Pb | Rb | S |
|-------------|--------|-----------|--------|-----------|--------|--------|---------|--------|----------|----------|-------|----------|---------|
| GSJ-JZN-1 | (1.71) | | 0.83 | (0.00195) | (6.61) | 1.94 | 1.49 | 0.45 | (0.0006) | (<0.005) | 0.161 | (0.0042) | |
| NCS DC29111 | (1.22) | (0.00126) | (2.81) | | (3.70) | (0.86) | (0.195) | (0.71) | | (0.052) | 0.48 | | (3.13) |
| NCS DC29115 | (0.69) | (0.00848) | (0.95) | | (9.52) | (0.62) | (0.191) | (0.20) | | (0.056) | 1.25 | | (16.30) |
| NCS DC35004 | | | | | | | | | | | 0.35 | | |

| 编号 | S (tot) | Sb | SiO2 | Sn | Sr | TiO2 | V | Zn |
|-------------|---------|----------|---------|-------|----------|--------|----------|-------|
| GSJ-JZN-1 | (1.30) | (0.0031) | (43.95) | | (0.0358) | 0.20 | (0.0024) | 2.22 |
| NCS DC29111 | | 0.00090 | (69.88) | | | (0.45) | | 4.94 |
| NCS DC29115 | | 0.00205 | (41.23) | | | (0.16) | | 30.19 |
| NCS DC35004 | | | 19.89 | 0.060 | | | | 42.98 |



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Paint

Lead in paint油漆中铅

| 编号 | 描述 | 种类 | Pb mg/cm ² | 规格 |
|-----------|--------------------------|-----|-----------------------|----------|
| NIST-2570 | Lead paint film (white) | CRM | 0.001 | 2 sheets |
| NIST-2571 | Lead paint film (yellow) | CRM | 3.58 | 2 sheets |
| NIST-2572 | Lead paint film (orange) | CRM | 1.527 | 2 sheets |
| NIST-2573 | Lead paint film (red) | CRM | 1.040 | 2 sheets |
| NIST-2574 | Lead paint film (gold) | CRM | 0.714 | 2 sheets |
| NIST-2575 | Lead paint film (green) | CRM | 0.307 | 2 sheets |
| NIST-2576 | Lead paint film (blue) | CRM | 5.59 | 2 sheets |

| 编号 | 描述 | 种类 | Pb (%) | 规格 |
|-----------|----------------|-----|---------|------|
| NIST-2580 | Powdered paint | CRM | 4.34 | 30 g |
| NIST-2581 | Powdered paint | CRM | 0.449 | 35 g |
| NIST-2582 | Powdered paint | CRM | 0.02088 | 20 g |
| NIST-2589 | Powdered paint | CRM | 9.99 | 35 g |

| 编号 | 描述 | 种类 | Pb | 规格 |
|--------------|---------------------|----|--------------------------------|----|
| NIST-RM 8680 | Paint on fiberboard | RM | Individual values are assigned | |

| 编号 | 描述 | 种类 | Concentrations in $\mu\text{g}/\text{cm}^2$ | | | | | | 规格 | |
|-----------------|--|----|---|----------|----------|----------|----------|----------|-------|----------|
| | | | QC | Sample 1 | Sample 2 | Sample 3 | Sample 4 | Sample 5 | | Sample 6 |
| ASI-PB-2M-PEF6 | Lead in Alkyd paint coating on PE film | RM | | 0.00 | 0.375 | 0.75 | 2.00 | 5.50 | 12.00 | set |
| ASI-PB-2M-PEF7 | | RM | (0.80) | 0.00 | 0.375 | 0.75 | 2.00 | 5.50 | 12.00 | set |
| ASI-PB-2M-PEFQC | | RM | (0.80) | | | | | | | Each |

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Plastics塑料

Acrylonitrile-Butadiene-Styrene (ABS) 丙烯腈-丁二烯-苯乙烯 (ABS)

| 编号 | 描述 | 种类 | Br (mg/kg) | Cd (mg/kg) | Cr (mg/kg) | Hg (mg/kg) | Pb (mg/kg) | 规格 |
|-----------------|-----------|-----|------------|------------|------------|------------|------------|--------------|
| NMIJ CRM 8102-A | ABS resin | CRM | | 10.77 | 27.87 | | 108.9 | 25 g |
| NMIJ CRM 8103-A | ABS resin | CRM | | 106.9 | 269.5 | | 1084 | 25 g |
| NMIJ CRM 8112-A | ABS resin | CRM | | 9.383 | 94.47 | 94.10 | 94.98 | 25 g |
| NMIJ CRM 8113-A | ABS resin | CRM | | 89.8 | 905 | (915) | 905 | 25 g |
| NMIJ CRM 8115-A | ABS resin | CRM | | 9.341 | 94.27 | 93.81 | 94.21 | Ø30x2mm |
| NMIJ CRM 8116-A | ABS resin | CRM | | 90.8 | 912 | (903) | 916 | Ø30x2mm |
| BAM-H010 | ABS | CRM | 240 | 93 | 470 | (415) | 479 | 100g / disc* |

* BAM-H010 is available as disc in three different dimensions; Ø40x1mm, Ø40x2mm and Ø40x6mm

Polyester 聚酯纤维

| 编号 | 描述 | 种类 | Cd (mg/kg) | Cr (mg/kg) | Hg (mg/kg) | Pb (mg/kg) | 规格 |
|-------------|------------------------------|-----|------------|------------|------------|------------|---------|
| JSAC 0601-3 | Plastics (polyester) | CRM | 5.0 | 11.3 | 1.3 | 12.1 | 50 g |
| JSAC 0602-3 | Plastics (polyester) | CRM | 50.4 | 112.6 | 12.1 | 112.0 | 50 g |
| JSAC 0631 | Plastics (polyester) for XRF | CRM | 22.5 | 25.8 | 19.7 | 24.5 | Ø40x4mm |
| JSAC 0632 | Plastics (polyester) for XRF | CRM | 46.1 | 93.3 | 59.4 | 92.9 | Ø40x4mm |

| 编号 | 描述 | 种类 | Cd (mg/kg) | Cr (mg/kg) | Pb (mg/kg) | 规格 |
|-----------|------------------------------|-----|------------|------------|------------|---------|
| JSAC 0611 | Plastics (polyester) for XRF | CRM | (<1) | (<1) | (<1) | Ø40x4mm |
| JSAC 0612 | Plastics (polyester) for XRF | CRM | 4.5 | 25.5 | 26.1 | Ø40x4mm |
| JSAC 0613 | Plastics (polyester) for XRF | CRM | 10.0 | 52.0 | 54.6 | Ø40x4mm |
| JSAC 0614 | Plastics (polyester) for XRF | CRM | 23.8 | 98.6 | 106.8 | Ø40x4mm |
| JSAC 0615 | Plastics (polyester) for XRF | CRM | 43.4 | 212.8 | 202.2 | Ø40x4mm |

| 编号 | 描述 | 种类 | Hg (mg/kg) | 规格 |
|-----------|------------------------------|-----|------------|---------|
| JSAC 0621 | | CRM | (<1) | Ø40x4mm |
| JSAC 0622 | | CRM | 10.0 | Ø40x4mm |
| JSAC 0623 | Polyester for XRF (Set only) | CRM | 49.0 | Ø40x4mm |
| JSAC 0624 | | CRM | 121.1 | Ø40x4mm |
| JSAC 0625 | | CRM | 244.4 | Ø40x4mm |

| 编号 | 描述 | 种类 | Br (mg/kg) | 规格 |
|----|----|----|------------|----|
|----|----|----|------------|----|

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|-----------|------------------------------|-----|-------|--|--|--|--|--|--|--|--|--|--|--|--|---------|
| JSAC 0651 | | CRM | (<1) | | | | | | | | | | | | | Ø40x4mm |
| JSAC 0652 | Polyester for XRF (Set only) | CRM | 105.8 | | | | | | | | | | | | | Ø40x4mm |
| JSAC 0653 | | CRM | 292.6 | | | | | | | | | | | | | Ø40x4mm |
| JSAC 0654 | | CRM | 595 | | | | | | | | | | | | | Ø40x4mm |
| JSAC 0655 | | CRM | 993 | | | | | | | | | | | | | Ø40x4mm |

Polyethylene (PE) 聚乙烯

| 编号 | 描述 | 种类 | Br | Cd | Cr | Hg | Pb | | | | | | | | | 规格 |
|-------------------|---|----|--------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|----------|
| IARM-MAT-PE-HIGH | Heavy metals in polyethylene (Only available as set MAT-PE-SET) | RM | 0.11 | 0.0300 | 0.1000 | 0.1099 | 0.1199 | | | | | | | | | Ø31x13mm |
| IARM-MAT-PE-LOW | | RM | 0.0500 | 0.0100 | 0.0400 | 0.0200 | 0.0400 | | | | | | | | | Ø31x13mm |
| IARM-MAT-PE-BLANK | | RM | 0 | 0 | 0 | 0 | 0 | | | | | | | | | Ø31x13mm |

| 编号 | 描述 | 种类 | As | Br | Cd | Cl | Cr | Cr (dig.) | Hg | Pb | S | Sb | Sn | Zn | 规格 |
|------------|---------------------------|-----|---------|--------|---------|----------|---------|-----------|----------|---------|----------|---------|-----------|------------|-------|
| ERM-EC680K | Polyethylene (low level) | CRM | 0.00041 | 0.0096 | 0.00196 | 0.01022 | 0.00202 | * | 0.000464 | 0.00136 | 0.0076 | 0.00101 | (0.00153) | (0.0137) | 100 g |
| ERM-EC681K | Polyethylene (high level) | CRM | 0.00291 | 0.077 | 0.0137 | 0.000080 | 0.0100 | * | 0.00237 | 0.0098 | 0.000063 | 0.0099 | (0.0086) | (0.000125) | 100 g |

* refer to certificate for information on acid digestible Cr

| 编号 | 描述 | 种类 | Al | As | Br | Ca | Cd | Cl | Cr | F | Fe | Hg | Mg | Na | P | 规格 |
|-------------|--------------|-----|--------|---------|--------|--------|---------|----------|---------|---------|--------|---------|--------|--------|--------|-----|
| JSM P 700-1 | Polyethylene | CRM | | 0.00091 | (0.02) | | 0.0005 | (0.004) | 0.00049 | | | 0.00053 | | | | 50g |
| JSM P 701-1 | Polyethylene | CRM | | 0.01873 | (0.05) | | 0.01135 | (0.06) | 0.01148 | | | 0.01116 | | | | 50g |
| JSM P 702-1 | Polyethylene | CRM | 0.0012 | | | 0.0013 | | (0.0017) | 0.0012 | | 0.0015 | | 0.0015 | 0.0012 | 0.0011 | 50g |
| JSM P 703-1 | Polyethylene | CRM | 0.022 | | | 0.023 | | (0.018) | 0.020 | (0.018) | 0.021 | | 0.029 | 0.024 | 0.017 | 50g |

| 编号 | Pb | S | Si | Ti | Zn |
|-------------|---------|----------|----------|--------|--------|
| JSM P 700-1 | 0.0005 | (0.006) | | | |
| JSM P 701-1 | 0.01113 | (0.04) | | | |
| JSM P 702-1 | | (0.0014) | (0.0008) | 0.0009 | 0.0010 |
| JSM P 703-1 | | (0.021) | 0.018 | 0.017 | 0.020 |

| 编号 | 描述 | 种类 | As | Br | Cd | Cr | Hg | Pb | 规格 |
|--------------|-----------------------------------|-----|---------|---------|---------|---------|---------|---------|-----------|
| JSM P 710-1A | | CRM | <0.0001 | (0.001) | <0.0001 | <0.0001 | <0.0001 | <0.0001 | 30x30x3mm |
| JSM P 710-1B | | CRM | 0.0009 | (0.002) | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 30x30x3mm |
| JSM P 710-1C | | CRM | 0.0086 | (0.035) | 0.0050 | 0.0052 | 0.0051 | 0.0050 | 30x30x3mm |
| JSM P 710-1D | Plastic (polyethylene) (Set only) | CRM | 0.0187 | (0.05) | 0.0114 | 0.0115 | 0.0112 | 0.0111 | 30x30x3mm |
| JSM P 710-1E | | CRM | 0.0478 | (0.15) | 0.0264 | 0.0265 | 0.0254 | 0.0270 | 30x30x3mm |
| JSM P 710-1F | | CRM | 0.0907 | (0.27) | 0.0522 | 0.0515 | 0.0546 | 0.0532 | 30x30x3mm |
| JSM P 710-1G | | CRM | 0.1950 | (0.62) | 0.1110 | 0.1100 | 0.1090 | 0.1120 | 30x30x3mm |

| 编号 | 描述 | 种类 | Br | Cd | Cr | Hg | Pb | 规格 |
|----------------|---------------------|----|--------|--------|--------|--------|--------|----------|
| ASI-PLPE3-1/50 | RoHS/WEEE compliant | RM | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | various* |
| ASI-PLPE3-2/50 | RoHS/WEEE compliant | RM | 0.0250 | 0.0050 | 0.0500 | 0.0500 | 0.0500 | various* |

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|----------------|------------------------|--------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|----------|
| ASI-PLPE3-3/50 | RoHS/WEEE compliant RM | 0.0500 | 0.0100 | 0.1000 | 0.1000 | 0.1000 | | | | | | | | | | | various* |
|----------------|------------------------|--------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|----------|

* available as 25g or 50g powders as well as Ø31mm or Ø40mm discs

| 编号 | 描述 | 种类 | Cd | 规格 |
|---------|-----------------------|-----|---------|-----|
| VDA 001 | | CRM | 0.00409 | 30g |
| VDA 002 | Only available as set | CRM | 0.00759 | 30g |
| VDA 003 | VDA 001-4 | CRM | 0.0198 | 30g |
| VDA 004 | | CRM | 0.0407 | 30g |

Polyethylene (PE) continued 聚乙烯

| 编号 | 描述 | 种类 | Br | Cd | Cr | Hg | Pb | 规格 |
|----------------|------------------------|----|--------|--------|--------|--------|--------|----------|
| ASI-PLPE9-1/50 | RoHS/WEEE compliant RM | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | various* |
| ASI-PLPE9-2/50 | RoHS/WEEE compliant RM | | 0.0025 | 0.0025 | 0.0050 | 0.0100 | 0.1000 | various* |
| ASI-PLPE9-3/50 | RoHS/WEEE compliant RM | | 0.0400 | 0.0100 | 0.0750 | 0.0075 | 0.0250 | various* |
| ASI-PLPE9-4/50 | RoHS/WEEE compliant RM | | 0.0100 | 0.0125 | 0.1250 | 0.0500 | 0.0050 | various* |
| ASI-PLPE9-5/50 | RoHS/WEEE compliant RM | | 0.0250 | 0.0075 | 0.1000 | 0.0250 | 0.1250 | various* |
| ASI-PLPE9-6/50 | RoHS/WEEE compliant RM | | 0.0500 | 0.0010 | 0.0650 | 0.0800 | 0.0750 | various* |
| ASI-PLPE9-7/50 | RoHS/WEEE compliant RM | | 0.0200 | 0.0005 | 0.0250 | 0.1000 | 0.0100 | various* |
| ASI-PLPE9-8/50 | RoHS/WEEE compliant RM | | 0.0300 | 0.0050 | 0.0500 | 0.0030 | 0.0500 | various* |
| ASI-PLPE9-9/50 | RoHS/WEEE compliant RM | | 0.0050 | 0.0150 | 0.0100 | 0.1200 | 0.0350 | various* |

* available as 25g or 50g powders as well as Ø31mm or Ø40mm discs

| 编号 | 描述 | 种类 | Br | Cd | Cr | Hg | Pb | 规格 |
|-----------------|---------------------------|----|--------|--------|--------|--------|--------|-----------|
| ASI-PLPEQC(50G) | QC sample for PE analysis | RM | 0.0250 | 0.0050 | 0.0500 | 0.0500 | 0.0500 | various** |

** available as 25g, 50g or 100g powders as well as Ø31mm or Ø40mm discs. One QC sample is included when ordering the ASI-PLPE9 set.

| 编号 | 描述 | 种类 | Br | Sb | DecaBB | BDE-047 | BDE-099 | BDE-100 | BDE-153 | BDE-154 | BDE-183 | BDE-197 + BDE-204 | DecaBDE | 规格 |
|-----------|---------------------|-----|------|---------|--------|---------|---------|---------|---------|---------|---------|----------------------|---------|------|
| ERM-EC590 | Polyethylene (LDPE) | CRM | 2.13 | (0.756) | 0.63 | 0.23 | 0.30 | 0.063 | 0.047 | 0.026 | 0.132 | 0.076 | 0.65 | 20 g |

all analyte concentrations for ERM-EC590 is given in g/kg

refer to the certificate of ERM-EC590 for additional information on more BDEs

Polypropylene (PP) 聚丙烯(PP)

| 编号 | 描述 | 种类 | Cd (mg/kg) | Cr (mg/kg) | Hg (mg/kg) | Pb (mg/kg) | 规格 |
|-----------------|----------|-----|------------|------------|------------|------------|---------|
| NMIJ CRM 8133-A | PP resin | CRM | 94.26 | 895.2 | 941.5 | 949.2 | 25 g |
| NMIJ CRM 8136-A | PP resin | CRM | 93.7 | 890.6 | 952 | 943.5 | Ø30x2mm |

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| 编号 | 描述 | 种类 | Br | Sb | DecaBB | BDE-28 | BDE-47 | BDE-99 | BDE-100 | BDE-153 | BDE-154 | BDE-183 | BDE-197 + BDE-204 | DecaBDE | 规格 |
|-----------|---------------|-----|------|---------|--------|--------|--------|--------|---------|---------|---------|---------|----------------------|---------|------|
| ERM-EC591 | Polypropylene | CRM | 2.08 | (0.713) | 0.74 | 0.0025 | 0.245 | 0.32 | 0.066 | 0.044 | 0.026 | 0.087 | 0.052 | 0.78 | 20 g |

all analyte concentrations for ERM-EC591 is given in g/kg

refer to the certificate of ERM-EC591 for additional information on more BDEs

Polystyrene 聚苯乙烯

| 编号 | 描述 | 种类 | deca-BDE (mg/kg) | 规格 |
|-----------------|-------------|-----|---------------------|-------------|
| NMIJ CRM 8108-B | Polystyrene | CRM | 312 | 5 x Ø30x2mm |
| NMIJ CRM 8110-A | Polystyrene | CRM | 886 | 5 x Ø30x2mm |

Polyvinylchloride (PVC) 聚氯乙烯 (PVC)

| 编号 | 描述 | 种类 | Br | Cd | Cr | Hg | Pb | deca-BDE | 规格 |
|--------------------|------------------------|-----|--------|----------|--------|--------|---------|----------|----------|
| IARM-MAT-PVC-HIGH | Heavy metals in PVC | RM | 0.1099 | 0.0301 | 0.1000 | 0.1100 | 0.1199 | | Ø31x13mm |
| IARM-MAT-PVC-LOW | (only available as set | RM | 0.0499 | 0.0100 | 0.0400 | 0.0200 | 0.0399 | | Ø31x13mm |
| IARM-MAT-PVC-BLANK | MAT-PVC-SET) | RM | 0 | 0 | 0 | 0 | 0 | | Ø31x13mm |
| NMIJ CRM 8109-A | PBDE in PVC | CRM | | | | | | 0.0333 | Ø30x2mm |
| NMIJ CRM 8123-A | PVC resin | CRM | | 0.009562 | 0.0949 | 0.0937 | 0.09655 | | 25 g |

| 编号 | 描述 | 种类 | Br | Cd | Cr | Hg | Pb | 规格 |
|-----------------|---------------------|----|--------|--------|--------|--------|--------|----------|
| ASI-PLPVC3-1/50 | RoHS/WEEE compliant | RM | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | various* |
| ASI-PLPVC3-2/50 | RoHS/WEEE compliant | RM | 0.0250 | 0.0050 | 0.0500 | 0.0500 | 0.0500 | various* |
| ASI-PLPVC3-3/50 | RoHS/WEEE compliant | RM | 0.0500 | 0.0100 | 0.1000 | 0.1000 | 0.1000 | various* |

* available as 25g or 50g powders as well as Ø31mm or Ø40mm discs

| 编号 | 描述 | 种类 | Br | Ca | Cd | Cl | Cr | Hg | Pb | 规格 |
|-----------------|---------------------|----|--------|--------|--------|-------|--------|--------|--------|----------|
| ASI-PLPVC9-1/50 | RoHS/WEEE compliant | RM | 0.0000 | 0.0000 | 0.0000 | 40.00 | 0.0000 | 0.0000 | 0.0000 | various* |
| ASI-PLPVC9-2/50 | RoHS/WEEE compliant | RM | 0.0025 | 0.5000 | 0.0025 | 35.00 | 0.0050 | 0.0100 | 0.1000 | various* |
| ASI-PLPVC9-3/50 | RoHS/WEEE compliant | RM | 0.0400 | 1.5000 | 0.0100 | 15.00 | 0.0750 | 0.0075 | 0.2500 | various* |
| ASI-PLPVC9-4/50 | RoHS/WEEE compliant | RM | 0.0100 | 0.2500 | 0.0125 | 40.00 | 0.1250 | 0.0500 | 0.0050 | various* |
| ASI-PLPVC9-5/50 | RoHS/WEEE compliant | RM | 0.0250 | 0.0000 | 0.0075 | 10.00 | 0.1000 | 0.0250 | 0.1250 | various* |
| ASI-PLPVC9-6/50 | RoHS/WEEE compliant | RM | 0.0500 | 3.0000 | 0.0010 | 10.00 | 0.0650 | 0.0800 | 0.0750 | various* |
| ASI-PLPVC9-7/50 | RoHS/WEEE compliant | RM | 0.0200 | 2.0000 | 0.0005 | 40.00 | 0.0250 | 0.1000 | 0.0100 | various* |
| ASI-PLPVC9-8/50 | RoHS/WEEE compliant | RM | 0.0300 | 0.0000 | 0.0050 | 12.50 | 0.0500 | 0.0030 | 0.0500 | various* |
| ASI-PLPVC9-9/50 | RoHS/WEEE compliant | RM | 0.0050 | 0.0000 | 0.0150 | 35.00 | 0.0100 | 0.1200 | 0.0350 | various* |

* available as 25g or 50g powders as well as Ø31mm or Ø40mm discs

| 编号 | 描述 | 种类 | Br | Ca | Cd | Cl | Cr | Hg | Pb | 规格 |
|-----------------|--------------|----|--------|--------|--------|-------|--------|--------|--------|-----------|
| ASI-PLPVC9-1/50 | QC check PVC | RM | 0.0250 | 0.0000 | 0.0050 | 35.00 | 0.0500 | 0.0500 | 0.0500 | various** |

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** available as 25g, 50g or 100g powders as well as Ø31mm or Ø40mm discs. One QC sample is included when ordering the ASI-PLPE9 set.

Packaging directive

| 编号 | 描述 | 种类 | Cd | Cr | Hg | Pb | 规格 |
|--------------------|--------------------|----|--------|--------|--------|--------|----------|
| IARM-MAT-PACK-HIGH | Heavy metals in PE | RM | 0.0100 | 0.0101 | 0.0102 | 0.0101 | Ø31x13mm |
| IARM-MAT-PACK-LOW | (Set only) | RM | 0.0061 | 0.0031 | 0.0033 | 0.0030 | Ø31x13mm |

Refractories and carbides 耐火材料和碳化物

Refractory 耐火材料

| 编号 | 描述 | 种类 | Al ₂ O ₃ | CaO | Fe ₂ O ₃ | K ₂ O | MgO | MnO | Na ₂ O | SiO ₂ | TiO ₂ | 规格 |
|------------|---------------------------|-----|--------------------------------|-------|--------------------------------|------------------|-------|-------|-------------------|------------------|------------------|-----|
| SEI-JR101 | | CRM | 8.16 | 1.061 | 0.314 | 0.165 | 0.217 | 0.116 | 1.013 | 88.57 | 0.302 | 20g |
| SEI-JR102 | | CRM | 13.79 | 0.049 | 3.978 | 0.145 | 0.673 | 0.015 | 0.303 | 80.47 | 0.454 | 20g |
| SEI-JR103 | | CRM | 18.07 | 0.072 | 0.407 | 0.350 | 0.016 | 0.005 | 0.124 | 80.32 | 0.370 | 20g |
| SEI-JR104 | | CRM | 22.52 | 0.259 | 3.244 | 3.048 | 0.070 | 0.017 | 0.300 | 67.35 | 2.943 | 20g |
| SEI-JR105A | Clay refractories (No. 1) | CRM | 25.35 | 0.407 | 0.768 | 0.817 | 0.222 | 0.119 | 0.651 | 69.17 | 2.249 | 20g |
| SEI-JR106 | (set only) | CRM | 29.91 | 0.146 | 1.922 | 1.816 | 0.980 | 0.024 | 0.599 | 63.61 | 0.679 | 20g |
| SEI-JR107 | | CRM | 37.08 | 0.710 | 2.202 | 2.573 | 0.490 | 0.019 | 0.218 | 55.32 | 1.053 | 20g |
| SEI-JR108 | | CRM | 40.08 | 0.277 | 1.547 | 0.809 | 0.270 | 0.020 | 0.207 | 55.31 | 1.155 | 20g |
| SEI-JR109 | | CRM | 41.24 | 0.146 | 0.892 | 0.793 | 0.126 | 0.011 | 0.307 | 54.23 | 1.961 | 20g |
| SEI-JR110 | | CRM | 46.68 | 0.107 | 0.848 | 0.342 | 0.166 | 0.014 | 0.085 | 49.54 | 1.666 | 20g |

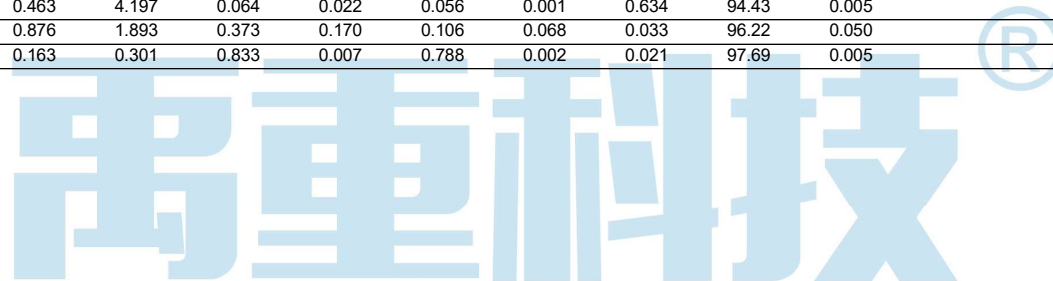
| 编号 | 描述 | 种类 | Al ₂ O ₃ | CaO | Cr ₂ O ₃ | Fe ₂ O ₃ | K ₂ O | LOI | MgO | MnO | Na ₂ O | P ₂ O ₅ | SiO ₂ | TiO ₂ | ZrO ₂ | 规格 |
|-----------|---------------------------|-----|--------------------------------|-------|--------------------------------|--------------------------------|------------------|---------|-------|-------|-------------------|-------------------------------|------------------|------------------|------------------|-----|
| SEI-JR121 | | CRM | 6.073 | 1.967 | 0.018 | 0.407 | 0.234 | (0.057) | 0.126 | 0.023 | 3.207 | 0.324 | 86.30 | 0.056 | 1.119 | 20g |
| SEI-JR122 | | CRM | 10.26 | 0.435 | 0.818 | 0.248 | 2.057 | (0.127) | 0.657 | 0.204 | 1.041 | 4.898 | 78.24 | 1.037 | 0.203 | 20g |
| SEI-JR123 | | CRM | 13.31 | 0.135 | 0.014 | 4.134 | 0.109 | (0.037) | 1.328 | 0.012 | 0.296 | 0.807 | 79.16 | 0.459 | 0.008 | 20g |
| SEI-JR124 | | CRM | 16.56 | 1.099 | 0.117 | 2.603 | 1.791 | (0.103) | 0.109 | 0.246 | 0.313 | 0.191 | 73.92 | 2.746 | 0.112 | 20g |
| SEI-JR125 | | CRM | 18.71 | 0.130 | 0.010 | 0.504 | 0.691 | (0.077) | 0.084 | 0.008 | 0.072 | 0.046 | 79.27 | 0.309 | 0.023 | 20g |
| SEI-JR126 | | CRM | 21.39 | 0.456 | 0.650 | 3.349 | 3.135 | (0.175) | 0.127 | 0.038 | 0.284 | 0.497 | 66.96 | 2.848 | 0.049 | 20g |
| SEI-JR127 | | CRM | 23.08 | 0.182 | 0.273 | 0.926 | 0.542 | (0.072) | 0.153 | 0.174 | 1.756 | 1.785 | 68.59 | 2.194 | 0.046 | 20g |
| SEI-JR128 | Clay refractories (No. 2) | CRM | 26.05 | 2.83 | 0.854 | 4.458 | 1.849 | (0.024) | 3.106 | 0.244 | 0.374 | 3.362 | 54.38 | 1.379 | 1.014 | 20g |
| SEI-JR129 | (set only) | CRM | 30.10 | 0.157 | 0.107 | 1.460 | 1.927 | (0.117) | 2.232 | 0.018 | 0.234 | 0.201 | 62.26 | 0.966 | 0.112 | 20g |
| SEI-JR130 | | CRM | 32.74 | 1.954 | 1.054 | 0.531 | 1.420 | (0.116) | 0.619 | 0.370 | 2.320 | 0.919 | 53.47 | 3.358 | 0.835 | 20g |

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|-----------|-----|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-----|
| SEI-JR131 | CRM | 36.63 | 0.785 | 0.070 | 2.208 | 2.619 | (0.174) | 1.023 | 0.032 | 0.768 | 1.611 | 52.71 | 1.162 | 0.264 | 20g |
| SEI-JR132 | CRM | 39.11 | 1.298 | 0.116 | 1.645 | 0.797 | (0.154) | 0.349 | 0.119 | 2.162 | 2.386 | 50.61 | 0.298 | 0.752 | 20g |
| SEI-JR133 | CRM | 39.02 | 0.109 | 1.277 | 3.693 | 0.914 | (0.089) | 2.034 | 0.017 | 0.335 | 0.344 | 50.10 | 1.932 | 0.573 | 20g |
| SEI-JR134 | CRM | 44.36 | 0.200 | 0.244 | 1.079 | 0.375 | (0.146) | 0.205 | 0.245 | 0.132 | 3.834 | 47.28 | 1.740 | 0.358 | 20g |
| SEI-JR135 | CRM | 48.92 | 2.360 | 0.427 | 3.057 | 2.776 | (0.183) | 1.245 | 0.049 | 2.879 | 0.487 | 37.26 | 0.076 | 0.203 | 20g |

| 编号 | 描述 | 种类 | Al2O3 | CaO | Fe2O3 | K2O | MgO | MnO | Na2O | SiO2 | TiO2 | 规格 | | |
|-----------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|--|--|
| SEI-JR201 | | CRM | 9.715 | 2.779 | 1.465 | 0.144 | 0.732 | 0.147 | 0.316 | 84.36 | 0.032 | 20g | | |
| SEI-JR202 | | CRM | 7.595 | 0.817 | 3.972 | 0.025 | 0.020 | 0.004 | 1.014 | 85.72 | 0.567 | 20g | | |
| SEI-JR203 | | CRM | 5.094 | 3.976 | 1.785 | 0.242 | 0.471 | 0.112 | 0.616 | 87.33 | 0.182 | 20g | | |
| SEI-JR204 | | CRM | 4.497 | 1.792 | 2.081 | 0.907 | 0.313 | 0.107 | 0.315 | 89.64 | 0.150 | 20g | | |
| SEI-JR205 | Silica refractories (No.1) (set only) | CRM | 3.089 | 3.110 | 1.248 | 0.500 | 0.092 | 0.064 | 0.932 | 90.40 | 0.325 | 20g | | |
| SEI-JR206 | | CRM | 1.772 | 1.205 | 3.205 | 0.507 | 0.072 | 0.018 | 0.180 | 92.88 | 0.018 | 20g | | |
| SEI-JR207 | | CRM | 1.703 | 2.518 | 0.965 | 0.212 | 0.160 | 0.042 | 0.047 | 94.05 | 0.079 | 20g | | |
| SEI-JR208 | | CRM | 0.463 | 4.197 | 0.064 | 0.022 | 0.056 | 0.001 | 0.634 | 94.43 | 0.005 | 20g | | |
| SEI-JR209 | | CRM | 0.876 | 1.893 | 0.373 | 0.170 | 0.106 | 0.068 | 0.033 | 96.22 | 0.050 | 20g | | |
| SEI-JR210 | CRM | 0.163 | 0.301 | 0.833 | 0.007 | 0.788 | 0.002 | 0.021 | 97.69 | 0.005 | 20g | | | |



Refractory continued耐火材料

| 编号 | 描述 | 种类 | Al2O3 | B2O3 | CaO | Fe2O3 | K2O | MgO | MnO | Na2O | SiO2 | TiO2 | 规格 | | |
|-----------|---|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-----|--|--|
| SEI-JR301 | | CRM | 46.80 | (0.87) | 0.797 | 3.529 | 2.007 | 0.690 | 0.018 | 0.170 | 43.91 | 1.031 | 20g | | |
| SEI-JR302 | | CRM | 53.93 | | 0.871 | 4.490 | 0.667 | 0.697 | 0.200 | 0.565 | 37.70 | 0.597 | 20g | | |
| SEI-JR303 | | CRM | 59.25 | | 1.039 | 1.476 | 0.207 | 0.855 | 0.008 | 0.699 | 36.16 | 0.164 | 20g | | |
| SEI-JR304 | | CRM | 63.06 | | 0.183 | 3.469 | 0.388 | 0.376 | 0.059 | 0.276 | 27.55 | 4.340 | 20g | | |
| SEI-JR305 | Alumina refractories (No.1) (Set only) | CRM | 68.69 | | 0.655 | 2.816 | 3.116 | 0.304 | 0.010 | 0.808 | 20.03 | 3.300 | 20g | | |
| SEI-JR306 | | CRM | 74.19 | | 0.626 | 1.956 | 1.758 | 0.100 | 0.019 | 0.994 | 17.35 | 2.685 | 20g | | |
| SEI-JR307 | | CRM | 80.14 | | 0.152 | 2.972 | 2.361 | 0.612 | 0.016 | 1.084 | 10.87 | 1.229 | 20g | | |
| SEI-JR308 | | CRM | 86.59 | | 0.099 | 0.412 | 0.108 | 0.053 | 0.112 | 0.263 | 10.25 | 1.795 | 20g | | |
| SEI-JR309 | | CRM | 89.83 | | 1.023 | 1.277 | 0.922 | 0.288 | 0.003 | 0.422 | 2.124 | 3.856 | 20g | | |
| SEI-JR310 | CRM | 94.71 | | 0.038 | 0.024 | 1.326 | 0.979 | 0.045 | 0.081 | 0.412 | 2.064 | 20g | | | |

| 编号 | 描述 | 种类 | Al2O3 | B2O3 | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SiO2 | TiO2 | 规格 | |
|-----------|---|-----|-------|---------|-------|---------|-------|---------|-------|---------|---------|---------|-------|---------|-----|--|
| SEI-JR401 | | CRM | 8.106 | (0.016) | 0.208 | (0.004) | 3.890 | (0.003) | 81.24 | (0.011) | (0.006) | (0.035) | 6.424 | (0.017) | 20g | |
| SEI-JR402 | | CRM | 1.999 | (0.127) | 3.570 | (0.006) | 5.050 | (0.001) | 83.77 | (0.011) | (0.010) | (0.077) | 5.462 | (0.026) | 20g | |
| SEI-JR403 | | CRM | 4.060 | (0.031) | 0.615 | (0.010) | 1.553 | (0.001) | 85.48 | (0.014) | (0.004) | (0.044) | 8.144 | (0.003) | 20g | |
| SEI-JR404 | | CRM | 6.014 | (0.011) | 1.786 | (0.006) | 2.908 | (0.001) | 88.02 | (0.030) | (0.009) | (0.053) | 1.223 | (0.007) | 20g | |
| SEI-JR405 | Magnesite refractories (No.1) (Set only) | CRM | 1.372 | (0.011) | 1.690 | (0.014) | 1.346 | (0.015) | 91.95 | (0.074) | (0.009) | (0.120) | 3.479 | (0.054) | 20g | |
| SEI-JR406 | | CRM | 1.139 | (0.013) | 4.805 | (0.006) | 0.874 | (0.000) | 91.85 | (0.011) | (0.002) | (0.041) | 1.196 | (0.004) | 20g | |
| SEI-JR407 | | CRM | 0.100 | (0.023) | 0.675 | (0.080) | 2.145 | (0.001) | 94.55 | (0.014) | (0.004) | (0.044) | 2.432 | (0.003) | 20g | |

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|-----------|-----|-------|---------|-------|---------|-------|---------|-------|---------|---------|---------|-------|---------|-----|
| SEI-JR408 | CRM | 2.554 | (0.099) | 0.672 | (0.009) | 0.134 | (0.000) | 96.16 | (0.010) | (0.001) | (0.015) | 0.460 | (0.004) | 20g |
| SEI-JR409 | CRM | 0.202 | (0.033) | 0.744 | (0.019) | 0.490 | (0.001) | 98.03 | (0.015) | (0.002) | (0.023) | 0.534 | (0.003) | 20g |
| SEI-JR410 | CRM | 0.058 | (0.026) | 0.595 | (0.003) | 0.050 | (0.001) | 99.08 | (0.010) | (0.001) | (0.045) | 0.188 | (0.003) | 20g |

| 编号 | 描述 | 种类 | Al2O3 | CaO | Cr2O3 | Fe2O3 | LOI | MgO | MnO | NiO | P2O5 | SiO2 | TiO2 | V2O5 | ZnO | 规格 |
|-----------|---|-----|-------|-------|-------|-------|----------|-------|-------|---------|---------|-------|-------|---------|---------|-----|
| SEI-JR501 | Chromium Magnesite refractories (No.1) (Set only) | CRM | 2.922 | 0.923 | 2.828 | 4.806 | (0.137) | 87.60 | 0.020 | (0.018) | (0.036) | 0.926 | 0.006 | (0.019) | (0.006) | 20g |
| SEI-JR502 | | CRM | 11.98 | 0.201 | 7.498 | 1.021 | (0.066) | 76.28 | 0.018 | (0.026) | (0.025) | 3.118 | 0.013 | (0.024) | (0.004) | 20g |
| SEI-JR503 | | CRM | 7.147 | 3.815 | 13.60 | 3.006 | (0.111) | 63.11 | 0.038 | (0.036) | (0.032) | 9.096 | 0.047 | (0.037) | (0.013) | 20g |
| SEI-JR504 | | CRM | 17.56 | 2.608 | 18.35 | 4.112 | (0.124) | 54.85 | 0.011 | (0.015) | (0.034) | 2.189 | 0.013 | (0.016) | (0.011) | 20g |
| SEI-JR505 | | CRM | 7.768 | 0.492 | 21.74 | 17.76 | (0.085) | 50.14 | 0.109 | (0.078) | (0.023) | 1.823 | 0.118 | (0.075) | (0.021) | 20g |
| SEI-JR506 | | CRM | 14.69 | 0.460 | 28.19 | 7.490 | (0.070) | 46.65 | 0.072 | (0.094) | (0.018) | 2.165 | 0.134 | (0.086) | (0.010) | 20g |
| SEI-JR507 | | CRM | 25.02 | 1.615 | 32.03 | 12.98 | (-0.111) | 22.36 | 0.115 | (0.202) | (0.010) | 5.698 | 0.166 | (0.130) | (0.037) | 20g |
| SEI-JR508 | | CRM | 3.891 | 1.031 | 38.18 | 22.70 | (0.053) | 30.86 | 0.006 | (0.010) | (0.016) | 3.081 | 0.014 | (0.008) | (0.005) | 20g |
| SEI-JR509 | | CRM | 20.28 | 2.867 | 42.57 | 10.15 | (0.137) | 20.45 | 0.082 | (0.044) | (0.013) | 1.964 | 1.203 | (0.118) | (0.037) | 20g |
| SEI-JR510 | | CRM | 12.21 | 0.291 | 50.38 | 14.99 | (-0.255) | 16.86 | 0.176 | (0.193) | (0.016) | 4.914 | 0.133 | (0.111) | (0.041) | 20g |
| SEI-JR511 | | CRM | 6.684 | 0.071 | 52.51 | 27.22 | (-0.483) | 10.62 | 0.127 | (0.108) | (0.004) | 2.909 | 0.105 | (0.054) | (0.052) | 20g |
| SEI-JR512 | | CRM | 29.25 | 4.061 | 4.989 | 26.01 | (0.028) | 24.81 | 0.025 | (0.018) | (0.019) | 10.57 | 0.047 | (0.012) | (0.013) | 20g |

| 编号 | 描述 | 种类 | Al2O3 | CaO | Cr2O3 | Fe2O3 | HfO2 | K2O | LOI | MgO | Na2O | P2O5 | SiO2 | TiO2 | ZrO2 | 规格 |
|-----------|--|-----|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-----|
| SEI-JR601 | Zircon-Zirconia refractories (No.1) (Set only) | CRM | 0.119 | 5.581 | 0.003 | 0.101 | 1.591 | 0.002 | (0.079) | 0.06 | 0.004 | 0.007 | 0.263 | 0.168 | 92.01 | 20g |
| SEI-JR602 | | CRM | 0.078 | 0.220 | 0.015 | 1.628 | 1.522 | 0.004 | (0.252) | 5.290 | 0.766 | 1.338 | 0.334 | 0.164 | 88.25 | 20g |
| SEI-JR603 | | CRM | 5.293 | 0.953 | 0.029 | 2.868 | 1.453 | 0.652 | (0.115) | 0.967 | 0.187 | 0.837 | 0.966 | 0.932 | 84.70 | 20g |
| SEI-JR604 | | CRM | 6.937 | 0.094 | 3.062 | 0.439 | 1.356 | 1.947 | (0.235) | 0.017 | 1.087 | 1.992 | 3.045 | 0.134 | 79.26 | 20g |
| SEI-JR605 | | CRM | 4.842 | 1.949 | 1.548 | 0.176 | 1.314 | 0.541 | (0.314) | 1.993 | 0.457 | 0.352 | 10.78 | 0.127 | 75.36 | 20g |
| SEI-JR606 | | CRM | 0.532 | 0.021 | 0.008 | 0.933 | 1.265 | 0.014 | (0.328) | 0.320 | 2.028 | 0.019 | 22.03 | 0.117 | 72.35 | 20g |
| SEI-JR607 | | CRM | 3.539 | 0.048 | 0.002 | 0.120 | 1.211 | 0.043 | (0.569) | 0.031 | 0.026 | 0.085 | 32.75 | 0.135 | 61.31 | 20g |
| SEI-JR608 | | CRM | 0.707 | 0.521 | 0.497 | 0.092 | 1.217 | 0.019 | (0.062) | 3.125 | 0.031 | 0.117 | 34.62 | 0.102 | 58.84 | 20g |
| SEI-JR609 | | CRM | 0.885 | 0.300 | 0.012 | 0.150 | 1.122 | 0.028 | (0.122) | 0.150 | 0.942 | 0.081 | 40.50 | 0.153 | 55.56 | 20g |
| SEI-JR610 | | CRM | 0.451 | 3.075 | 0.009 | 0.308 | 0.986 | 0.010 | (0.074) | 0.547 | 0.043 | 0.113 | 45.66 | 0.099 | 48.70 | 20g |

Refractory continued耐火材料

| 编号 | 描述 | 种类 | Al2O3 | CaO | Cr2O3 | Fe2O3 | HfO2 | K2O | LOI | MgO | MnO | Na2O | P2O5 | SiO2 | TiO2 | 规格 |
|-----------|---|-----|-------|-------|-------|-------|-------|-------|---------|-------|---------|-------|---------|-------|-------|-----|
| SEI-JR701 | Alumina-Zirconia-Silica refractories (No.1) | CRM | 10.09 | 2.073 | 1.010 | 2.007 | 0.850 | 0.024 | (0.098) | 0.476 | (0.007) | 1.846 | (0.027) | 28.44 | 4.961 | 20g |
| SEI-JR702 | | CRM | 38.14 | 1.552 | 0.111 | 0.374 | 2.086 | 0.579 | (0.180) | 1.979 | (0.004) | 2.024 | (0.028) | 9.99 | 0.210 | 20g |
| SEI-JR703 | | CRM | 46.34 | 0.037 | 0.006 | 0.059 | 0.727 | 0.002 | (0.096) | 0.011 | (0.000) | 0.535 | (0.035) | 14.64 | 0.072 | 20g |
| SEI-JR704 | | CRM | 19.58 | 0.155 | 0.518 | 0.553 | 0.682 | 0.402 | (0.079) | 0.515 | (0.089) | 0.228 | (0.130) | 42.61 | 1.025 | 20g |
| SEI-JR705 | | CRM | 64.14 | 0.191 | 2.019 | 0.141 | 0.484 | 0.018 | (0.166) | 0.460 | (0.004) | 0.300 | (0.017) | 1.999 | 2.021 | 20g |
| SEI-JR706 | | CRM | 25.95 | 1.587 | 0.010 | 0.130 | 1.190 | 0.952 | (0.729) | 0.158 | (0.004) | 3.496 | (0.016) | 39.33 | 3.778 | 20g |
| SEI-JR707 | | CRM | 55.78 | 1.086 | 0.180 | 1.814 | 0.366 | 0.155 | (0.011) | 0.844 | (0.003) | 0.199 | (0.055) | 21.17 | 0.289 | 20g |
| SEI-JR708 | | CRM | 79.52 | 1.172 | 0.297 | 0.800 | 1.033 | 0.746 | (0.136) | 1.646 | (0.001) | 0.089 | (0.002) | 0.546 | 1.020 | 20g |
| SEI-JR709 | | CRM | 50.35 | 0.524 | 2.916 | 0.476 | 0.184 | 0.216 | (0.202) | 1.208 | (0.002) | 1.038 | (0.009) | 34.38 | 0.091 | 20g |
| SEI-JR710 | | CRM | 82.29 | 0.225 | 1.027 | 1.150 | 1.511 | 0.636 | (0.094) | 0.049 | (0.002) | 1.419 | (0.042) | 5.624 | 3.002 | 20g |

| 编号 | ZrO2 |
|-----------|-------|
| SEI-JR701 | 48.06 |
| SEI-JR702 | 42.54 |

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|-----------|-------|
| SEI-JR703 | 37.35 |
| SEI-JR704 | 33.46 |
| SEI-JR705 | 27.96 |
| SEI-JR706 | 22.72 |
| SEI-JR707 | 18.16 |
| SEI-JR708 | 12.84 |
| SEI-JR709 | 8.322 |
| SEI-JR710 | 2.965 |

| 编号 | 描述 | 种类 | Al2O3 | CaO | Cr2O3 | Fe2O3 | K2O | LOI | MgO | MnO | Na2O | P2O5 | SiO2 | TiO2 | ZrO2 | 规格 |
|-----------|--|-----|-------|-------|---------|-------|-------|---------|-------|---------|-------|-------|-------|-------|---------|-----|
| SEI-JR801 | | CRM | 93.49 | 0.141 | (0.003) | 2.009 | 0.014 | (0.149) | 3.261 | (0.002) | 0.199 | 0.002 | 0.355 | 0.217 | (0.008) | 20g |
| SEI-JR802 | | CRM | 84.25 | 2.003 | (0.002) | 1.035 | 0.462 | (0.063) | 6.132 | (0.003) | 0.159 | 0.957 | 3.329 | 1.484 | (0.002) | 20g |
| SEI-JR803 | | CRM | 74.23 | 0.576 | (0.002) | 4.904 | 0.007 | (0.364) | 16.20 | (0.005) | 0.869 | 0.017 | 0.583 | 2.516 | (0.004) | 20g |
| SEI-JR804 | | CRM | 64.66 | 4.767 | (0.010) | 4.020 | 0.044 | (0.012) | 20.84 | (0.020) | 0.089 | 0.111 | 5.178 | 0.132 | (0.002) | 20g |
| SEI-JR805 | Alumina-Magnesite refractories (No.1) | CRM | 58.03 | 0.252 | (0.001) | 0.732 | 0.015 | (0.174) | 36.04 | (0.006) | 0.540 | 0.682 | 2.498 | 1.059 | (0.000) | 20g |
| SEI-JR806 | | CRM | 48.85 | 0.979 | (0.006) | 0.165 | 0.001 | (0.212) | 49.43 | (0.026) | 0.049 | 0.048 | 0.514 | 0.004 | (0.001) | 20g |
| SEI-JR807 | | CRM | 39.96 | 2.759 | (0.002) | 0.323 | 0.153 | (0.574) | 55.07 | (0.005) | 0.329 | 0.530 | 0.586 | 0.198 | (0.001) | 20g |
| SEI-JR808 | | CRM | 28.68 | 0.994 | (0.001) | 0.565 | 0.692 | (0.844) | 67.01 | (0.017) | 0.409 | 0.229 | 0.799 | 0.714 | (0.001) | 20g |
| SEI-JR809 | | CRM | 19.86 | 4.479 | (0.001) | 0.115 | 0.989 | (0.484) | 70.11 | (0.006) | 0.049 | 1.068 | 0.363 | 2.888 | (0.001) | 20g |
| SEI-JR810 | | CRM | 10.08 | 0.180 | (0.004) | 3.118 | 0.167 | (0.222) | 78.96 | (0.016) | 0.759 | 0.513 | 4.211 | 1.916 | (0.004) | 20g |

| 编号 | 描述 | 种类 | Al | C | C (free) | Ca | Fe | Mg | N | O | Si (free) | SiC | Ti | 规格 |
|------------|-----------------------------------|-----|-------|-------|----------|--------|-------|--------|------|-------|-----------|-------|--------|-----|
| SEI-JR1001 | Carbon refractories | CRM | 0.008 | 29.81 | 0.04 | <0.001 | 0.044 | <0.001 | 0.03 | 0.048 | 0.06 | 99.58 | 0.0035 | 50g |
| SEI-JR1002 | | CRM | | 5.03 | 4.98 | | | | | | | | | 50g |
| SEI-JR1003 | | CRM | | 10.06 | 10.01 | | | | | | | | | 50g |
| SEI-JR1004 | | CRM | | 20.04 | 19.92 | | | | | | | | | 50g |
| SEI-JR1005 | Carbon refractories (set only) | CRM | | 29.93 | 29.81 | | | | | | | | | 50g |
| SEI-JR1006 | | CRM | | 49.99 | 49.97 | | | | | | | | | 50g |
| SEI-JR1007 | | CRM | | 36.75 | 10.01 | | | | | | | 89.29 | | 50g |
| SEI-JR1008 | | CRM | | 14.12 | 5.21 | | | | | | | 29.74 | | 50g |
| SEI-JR1009 | | CRM | | 39.43 | 37.67 | | | | | | 6.18 | | 50g | |

Refractory continued耐火材料

| 编号 | 描述 | 种类 | S | 规格 |
|------------|--|-----|-------|-----|
| SEI-JR1101 | | CRM | 0.106 | 40g |
| SEI-JR1102 | | CRM | 0.293 | 40g |
| SEI-JR1103 | Sulfur impure refractories (Set only) | CRM | 1.02 | 40g |
| SEI-JR1104 | | CRM | 1.48 | 40g |
| SEI-JR1105 | | CRM | 2.89 | 40g |
| SEI-JR1106 | | CRM | 4.93 | 40g |

| 编号 | 描述 | 种类 | Al2O3 | C | CO2 | CaO | Co3O4 | Cr2O3 | CuO | Fe2O3 | H2O loss | HfO2 | K2O | LOI | MgO | 规格 |
|----|----|----|-------|---|-----|-----|-------|-------|-----|-------|----------|------|-----|-----|-----|----|
|----|----|----|-------|---|-----|-----|-------|-------|-----|-------|----------|------|-----|-----|-----|----|

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|------------|----------------|-----|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|-------|-----|
| DH-SX26-12 | Refractory | RM | 36.45 | 0.437 | 0.54 | 1.80 | 0.385 | 3.10 | 0.75 | 0.759 | 13.13 | 100g | | |
| DHSX26-13 | Refractory | RM | 42.78 | 1.779 | 0.53 | 2.31 | 0.140 | 0.004 | 2.57 | 0.404 | 21.03 | 100g | | |
| FLX-CRM112 | Zircon Alumina | CRM | 79.81 | | | 0.147 | <0.01 | 0.017 | 0.326 | 0.099 | 0.090 | (5.42) | 0.755 | 80g |

| 编号 | MnO | Mn3O4 | Na2O | NiO | P2O5 | S | SO3 | SiO2 | SrO | TiO2 | V2O5 | WO3 | ZrO2 |
|------------|-------|-------|-------|-------|-------|-------|--------|-------|-----|-------|-------|-------|-------|
| DH-SX26-12 | 0.125 | | 0.242 | 0.032 | 0.279 | 0.034 | | 40.80 | | 1.25 | 0.027 | | 0.163 |
| DHSX26-13 | | 0.122 | 0.118 | | 0.122 | 0.066 | | 25.83 | | 1.199 | 0.020 | | |
| FLX-CRM112 | | 0.024 | 0.267 | <0.01 | 0.074 | | (0.04) | 12.16 | | 0.273 | | 0.041 | 5.95 |

| 编号 | 描述 | 种类 | Al2O3 | C | C (tot) | CO2 | CaO | Fe2O3 | H2O loss | K2O | Li2O | LOI | MgO | MnO | Mn3O4 | 规格 |
|------------|------------------|-----|-------|--------|---------|-------|--------|-------|----------|--------|----------|--------|-------|-------|-------|------|
| A FF10 | Refractory | CRM | 24.04 | | | | 0.36 | 1.70 | | 1.73 | | | 0.31 | | | 100g |
| A FF8 | Refractory | CRM | 36.91 | | | | 0.36 | 2.93 | | 1.69 | | | 0.54 | | | 100g |
| DH-SX26-02 | Refractory | RM | 62.82 | | | 0.004 | 0.438 | 1.087 | 0.101 | 0.24 | | | 0.161 | | 0.019 | 100g |
| DH-SX26-09 | Refractory | RM | 63.82 | | 0.739 | 0.170 | 2.25 | 1.75 | | 0.526 | | | 4.17 | 0.282 | | 100g |
| DH-SX26-11 | Refractory | RM | 36.82 | | 0.033 | | 0.054 | 0.509 | 0.186 | 0.362 | | | 0.170 | 0.011 | | 100g |
| IPT-51 | Burnt Refractory | CRM | 40.3 | | | | 0.06 | 1.19 | | 0.69 | 0.018 | 0.16 | 0.20 | | | 80g |
| IPT-57 | Burnt Refractory | CRM | 71.5 | | | | 0.05 | 1.25 | | 0.83 | 0.008 | 0.20 | 0.13 | | | 80g |
| IPT-63 | Refractory | CRM | 0.48 | | | | 2.21 | 0.52 | | 0.043 | (0.0005) | 0.17 | 0.18 | 0.008 | | 80g |
| NIST-76A | Burnt Refractory | CRM | 38.7 | | | | 0.22 | 1.60 | | 1.33 | 0.042 | (0.34) | 0.52 | | | 75g |
| NIST-77A | Burnt Refractory | CRM | 60.2 | | | | 0.05 | 1.00 | | 0.090 | 0.025 | (0.22) | 0.38 | | | 75g |
| NIST-78A | Burnt Refractory | CRM | 71.7 | | | | 0.11 | 1.2 | | 1.22 | 0.12 | (0.42) | 0.70 | | | 75g |
| VS-K10/3 | Corundum | CRM | 97 | (0.05) | | | (0.03) | 1.82 | | (0.03) | | | | | | 125g |
| VS-K6/4 | Magnesite | CRM | 0.54 | | | | 2.95 | 2.26 | | | | | 92.4 | | | 75g |

| 编号 | Na2O | P2O5 | SO3 | SiO2 | SrO | TiO2 | ZrO2 |
|------------|-------|-------|-------|-------|-------|-------|---------|
| A FF10 | 0.12 | | | 69.66 | | 1.49 | |
| A FF8 | 0.09 | | | 53.79 | | 2.54 | |
| DH-SX26-02 | | 0.029 | 0.031 | 34.49 | | 0.288 | |
| DH-SX26-09 | 0.220 | 0.339 | 0.121 | 23.41 | | 1.27 | 0.097 |
| DH-SX26-11 | 0.055 | 0.036 | 0.014 | 60.07 | | 1.50 | 0.047 |
| IPT-51 | 0.09 | 0.09 | | 55.0 | | 2.19 | 0.070 |
| IPT-57 | 0.35 | 0.054 | | 24.3 | 0.009 | 1.19 | 0.20 |
| IPT-63 | 0.013 | 0.013 | | 96.28 | | 0.030 | (0.002) |
| NIST-76A | 0.07 | 0.120 | | 54.9 | 0.037 | 2.03 | |
| NIST-77A | 0.037 | 0.092 | | 35.0 | 0.009 | 2.66 | |
| NIST-78A | 0.078 | 1.3 | | 19.4 | 0.25 | 3.22 | |
| VS-K10/3 | (0.5) | | | (0.2) | | 0.35 | |
| VS-K6/4 | | | | 2.12 | | | |

Carbides 碳化物

| 编号 | 描述 | 种类 | Al | C | C (free) | Ca | Fe | LOI | Mg | N | O | Si | SiC | Ti | 规格 |
|------------|----|-----|-------|-------|----------|--------|-------|-------|--------|-------|-------|-------------|-------|--------|-----|
| SEI-JR1001 | | CRM | 0.008 | 29.81 | 0.04 | <0.001 | 0.044 | | <0.001 | 0.030 | 0.048 | 0.06 (free) | 99.58 | 0.0035 | 50g |
| SEI-JR1002 | | CRM | | 5.03 | 4.98 | | | 5.11 | | | | | | | 50g |
| SEI-JR1003 | | CRM | | 10.06 | 10.01 | | | 10.11 | | | | | | | 50g |

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| 编号 | 描述 | 种类 | Al (mg/kg) | B (i.a.)** | B (tot) | B (sol.) | B (oxide) | C (tot) | Ca (mg/kg) | Co (mg/kg) | Cr (mg/kg) | Cu (mg/kg) | Fe (mg/kg) | Mn (mg/kg) | N | 规格 |
|------------|------------------------|-----|------------|------------|---------|----------|-----------|---------|------------|------------|------------|------------|------------|------------|---|-----|
| SEI-JR1004 | Silicon Carbide - only | CRM | 20.04 | 19.92 | | | | 20.01 | | | | | | | | 50g |
| SEI-JR1005 | as set SEI-JR1001- | CRM | 29.93 | 29.81 | | | | 29.95 | | | | | | | | 50g |
| SEI-JR1006 | 1009* | CRM | 49.99 | 49.97 | | | | 49.95 | | | | | | | | 50g |
| SEI-JR1007 | | CRM | 36.75 | 10.01 | | | | | | | | | 89.29 | | | 50g |
| SEI-JR1008 | | CRM | 14.12 | 5.21 | | | | | | | | | 29.74 | | | 50g |
| SEI-JR1009 | | CRM | 39.43 | 37.67 | | | | | | | | | 6.18 | | | 50g |

* SEI-JR1001 is also available as single 规格

| 编号 | 描述 | 种类 | Al (mg/kg) | B (i.a.)** | B (tot) | B (sol.) | B (oxide) | C (tot) | Ca (mg/kg) | Co (mg/kg) | Cr (mg/kg) | Cu (mg/kg) | Fe (mg/kg) | Mn (mg/kg) | N | 规格 |
|-----------|---------------|-----|------------|------------|---------|----------|-----------|---------|------------|------------|------------|------------|------------|------------|-------|------|
| BAM ED102 | Boron Carbide | CRM | 0.0157 | 19.907 | 78.47 | 0.116 | 0.075 | 21.01 | 97 | 0.39 | 5.6 | 2.2 | 686 | 10.4 | 0.209 | 100g |

| 编号 | Na (mg/kg) | Ni (mg/kg) | O | Si (mg/kg) | Ti (mg/kg) | Zr (mg/kg) |
|-----------|------------|------------|------|------------|------------|------------|
| BAM ED102 | 6.3 | 8.0 | 0.10 | 268 | 96 | 48.9 |

** Isotopic abundance (amount fraction) of ¹⁰Boron related to the total amount of Boron

| 编号 | 描述 | 种类 | C | C (free) | Fe | O | 规格 |
|--------------|------------------|-----|-----------|----------|--------|--------|------|
| ECRM-B 783-1 | Tungsten Carbide | CRM | 6.188 (T) | (0.04) | 0.0022 | (0.01) | 100g |
| NIST-276B | Tungsten Carbide | CRM | 6.10 | | | | 75g |

| 编号 | 描述 | 种类 | C | Co | Ta | Ti | 规格 |
|----------|------------------|-----|-------|-------|------|------|------|
| NIST-887 | Cemented carbide | CRM | (5.5) | 10.35 | | | 100g |
| NIST-888 | Cemented carbide | CRM | (4.6) | 24.7 | 4.77 | | 75g |
| NIST-889 | Cemented carbide | CRM | (6.0) | 9.50 | 4.60 | 4.03 | 75g |

Slags炉渣

AOD-slag (AOD-Slag)

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| 编号 | Comment | 种类 | Al ₂ O ₃ | CaO | Cr ₂ O ₃ | F | FeO | MgO | MnO | P ₂ O ₅ | S | SiO ₂ | TiO ₂ | V ₂ O ₅ | 规格 |
|--------|----------|-----|--------------------------------|------|--------------------------------|-----|-----|-----|------|-------------------------------|------|------------------|------------------|-------------------------------|------|
| JK S11 | AOD-slag | CRM | 2.85 | 60.0 | 0.17 | 7.9 | 0.2 | 4.7 | 0.12 | (<0.005) | 0.30 | 26.8 | 0.95 | (<0.01) | 100g |

Basic slag碱性炉渣

| 编号 | Comment | 种类 | Al | Al ₂ O ₃ | Ca | CaO | Cr ₂ O ₃ | F | Fe | Mg | MgO | Mn | MnO | P | P ₂ O ₅ | 规格 |
|--------------|------------|-----|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|------|------|------|------|------|-------------------------------|------|
| ECRM-B 879-1 | Basic slag | CRM | | 0.803 | | 43.70 | 0.477 | 0.368 | 18.97 | | 2.19 | | 4.45 | | 8.46 (tot) | 100g |
| ECRM-F 805-1 | Basic slag | CRM | | 0.616 | | 48.92 | | | 14.87 | | 1.86 | | 2.05 | | 16.20 | 100g |
| ECRM-F 806-1 | Basic slag | CRM | | 0.901 | | 46.13 | | | 17.89 | | 3.02 | | 5.94 | | 2.25 | 100g |
| ECRM-F 804-1 | Basic slag | CRM | 0.407 | | 36.88 | | | | 11.92 | 0.88 | | 1.48 | | 7.67 | | 100g |

| 编号 | P ₂ O ₅ (sol.) | S | Si | SiO ₂ | Ti | TiO ₂ | V | V ₂ O ₅ |
|--------------|--------------------------------------|-------|------|------------------|-------|------------------|-------|-------------------------------|
| ECRM-B 879-1 | 7.59 | 0.102 | | 8.82 | | 0.535 | | 0.738 |
| ECRM-F 805-1 | | 0.092 | | 6.63 | | 0.342 | | 0.918 |
| ECRM-F 806-1 | | 0.110 | | 11.72 | | 0.504 | | 0.514 |
| ECRM-F 804-1 | | 0.127 | 2.59 | | 0.152 | | 0.460 | |

Blast furnace slag高炉渣

| 编号 | Comment | 种类 | Al | B | Ca | Cr | F | Fe | K | Mg | Mn | Na | P | S | Si | 规格 |
|--------------|--------------------|-----|------|--------|-------|--------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|
| ECRM-F 802-1 | Blast furnace slag | CRM | 8.53 | 0.0245 | 30.62 | 0.0053 | 0.243 | 0.576 | 0.491 | 2.87 | 0.460 | 0.236 | 0.109 | 0.714 | 15.16 | 100g |

| 编号 | Ti | V | Zn |
|--------------|-------|-------|--------|
| ECRM-F 802-1 | 0.366 | 0.028 | 0.0025 |

| 编号 | Comment | 种类 | Al ₂ O ₃ | CaO | Fe | K ₂ O | MgO | Mn | MnO | Na ₂ O | S | SiO ₂ | TiO ₂ | 规格 |
|-----------|--------------------|-----|--------------------------------|------|------|------------------|--------|------|-------|-------------------|---------|------------------|------------------|-----|
| N 7-1-005 | Blast furnace slag | CRM | 10.0 | 38.8 | 0.21 | (0.19) | 12.0 | | 0.47 | (0.13) | (0.85) | 35.3 | 0.32 | 75g |
| N 7-1-006 | Blast furnace slag | CRM | 7.05 | 32.7 | 0.59 | (0.61) | 16.8 | 1.24 | | (0.35) | (0.56) | 38.5 | 0.34 | 75g |
| N 7-1-007 | Blast furnace slag | CRM | 6.2 | 31.2 | 0.55 | (0.38) | 18.9 | | 0.78 | (0.24) | (0.57) | 39.0 | 0.39 | 75g |
| N 7-1-008 | Blast furnace slag | CRM | 8.4 | 42.1 | 0.30 | (0.52) | 6.1 | | 0.73 | (0.33) | (0.65) | 39.1 | 0.30 | 75g |
| N 7-1-009 | Blast furnace slag | CRM | 9.2 | 49.6 | 0.47 | (0.19) | 1.1 | | 0.60 | (0.14) | 1.17 | 32.8 | 0.38 | 75g |
| N 7-1-010 | Blast furnace slag | CRM | 7.94 | 31.2 | 5.5 | (0.59) | 0.73 | | 3.40 | (0.18) | 0.14 | 44.0 | 0.91 | 75g |
| N 7-1-011 | Blast furnace slag | CRM | 24.0 | 29.4 | 1.9 | (0.04) | 17.5 | | 1.97 | (0.19) | (0.03) | 21.9 | (0.09) | 75g |
| N 7-1-012 | Blast furnace slag | CRM | 45.2 | 0.57 | 1.02 | (0.02) | (0.21) | 0.06 | | (0.52) | (0.009) | 51.4 | (0.09) | 75g |
| N 7-1-013 | Blast furnace slag | CRM | 38.6 | 28.7 | 1.12 | (0.03) | 8.0 | | 0.26 | (0.04) | (0.03) | 20.3 | 0.78 | 75g |
| N 7-1-014 | Blast furnace slag | CRM | 24.0 | 30.1 | 1.27 | (0.07) | 9.3 | | (0.3) | (0.07) | (0.02) | 33.6 | (0.07) | 75g |
| N 7-1-015 | Blast furnace slag | CRM | 14.5 | 28.0 | 1.7 | (0.08) | 9.2 | | 0.58 | (0.1) | (0.02) | (44.7) | (0.08) | 75g |

| 编号 | Comment | 种类 | Al ₂ O ₃ | CaO | Fe (calc) | FeO | K ₂ O | MgO | Mn | Na ₂ O | P | S | SiO ₂ | TiO ₂ | Zn | 规格 |
|----------|--------------------|-----|--------------------------------|-------|-----------|-------|------------------|------|-------|-------------------|----------|-------|------------------|------------------|----------|------|
| IMZ-2-71 | Blast furnace slag | CRM | 4.76 | 43.81 | 1.57 | | 0.426 | 5.03 | 0.615 | 0.35 | (0.011) | 0.535 | 41.35 | (0.188) | (0.036) | 100g |
| IMZ-2-72 | Blast furnace slag | CRM | 4.74 | 43.85 | (0.93) | | (0.423) | 5.26 | 0.608 | (0.342) | 0.010 | 0.534 | 41.80 | (0.170) | (0.050) | 100g |
| IMZ-2-73 | Blast furnace slag | CRM | 7.09 | 43.45 | 1.08 | | 0.674 | 1.98 | 0.882 | 0.620 | (0.0097) | 0.572 | 42.50 | 0.258 | (0.0026) | 100g |
| IMZ-2-74 | Blast furnace slag | CRM | 5.25 | 43.37 | 3.36 | | 0.456 | 4.67 | 0.635 | 0.331 | (0.011) | 0.563 | 38.91 | 0.205 | 0.051 | 100g |
| IMZ-2-75 | Blast furnace slag | CRM | 4.71 | 44.35 | 0.548 | | 1.01 | 5.18 | 0.598 | (0.823) | (0.01) | 0.368 | 40.99 | 0.160 | (0.003) | 100g |
| IMZ-2-76 | Blast furnace slag | CRM | 1.02 | 38.57 | 25.12 | 22.11 | | 5.75 | 4.88 | (0.017) | 0.416 | 0.076 | 10.92 | (0.172) | (0.0090) | 100g |

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| IMZ-2-77 | Blast furnace slag | CRM | 1.61 | 35.65 | 23.63 | (21.69) | (0.019) | 6.39 | 4.04 | (0.032) | 0.392 | 0.065 | 16.32 | (0.177) | (0.012) | 100g |
| IMZ-2-78 | Blast furnace slag | CRM | 1.49 | 51.70 | 12.37 | 10.96 | (0.013) | 3.24 | 4.47 | (0.026) | 0.451 | 0.139 | 17.43 | (0.178) | (0.003) | 100g |

Blast furnace slag continued高炉渣

| 编号 | Comment | 种类 | Al2O3 | BaO | C (tot) | CO2 | Ca | CaO | Cr2O3 | Fe | C) | K2O | MgO | Mn | Na2O | 规格 |
|------------|--------------------|----|-------|-------|---------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|
| DH-SX32-18 | Blast furnace slag | RM | 12.38 | 0.093 | | | 28.35 | | 0.008 | 0.358 | | 0.557 | 7.63 | 0.292 | 0.364 | 100g |
| DH-SX32-19 | Blast furnace slag | RM | 10.00 | | 0.028 | 0.060 | 28.24 | | | 0.383 | 0.07 | 0.744 | 7.47 | 0.981 | 0.303 | 100g |
| DH-SX32-21 | Blast furnace slag | RM | 10.99 | | | | 28.97 | 40.54 | | 0.230 | | 0.525 | 10.00 | 0.161 | 0.428 | 100g |
| DH-SX32-23 | Blast furnace slag | RM | 9.39 | | | | 27.21 | | | 0.662 | | 1.62 | 9.53 | 0.726 | 0.391 | 100g |
| DH-SX32-24 | Blast furnace slag | RM | 12.86 | 0.083 | | | 27.10 | | | 2.53 | | 0.170 | 7.03 | 0.145 | 0.102 | 100g |
| DH-SX32-25 | Blast furnace slag | RM | 12.80 | 0.086 | | | 28.59 | | | 0.385 | | 0.115 | 7.63 | 0.129 | 0.092 | 100g |
| DH-SX32-27 | Blast furnace slag | RM | 12.09 | 0.094 | | | | 41.07 | | 0.196 | | 0.527 | 6.314 | 0.433 | | 100g |
| DH-SX32-28 | Blast furnace slag | RM | 11.93 | 0.097 | | | | 35.66 | | 0.332 | | 1.235 | 8.56 | 1.342 | 0.388 | 100g |
| DH-SX32-30 | Blast furnace slag | RM | 12.64 | 0.090 | | | | 40.42 | | 0.667 | | 0.431 | 5.94 | 0.402 | | 100g |
| DH-SX32-31 | Blast furnace slag | RM | 12.5 | | | | | 40.85 | | 0.252 | | 0.43 | 6.225 | 0.362 | | 100g |
| DH-SX32-32 | Blast furnace slag | RM | 11.81 | 0.087 | | | | 36.59 | | 0.417 | | 1.228 | 8.12 | 0.671 | 0.437 | 100g |
| DH-SX32-33 | Blast furnace slag | RM | 11.53 | 0.082 | | | | 36.30 | 0.021 | 1.72 | | 0.462 | 5.27 | 0.907 | 0.193 | 100g |
| DH-SX32-34 | Blast furnace slag | RM | 11.32 | 0.087 | | | | 37.26 | 0.018 | 0.742 | | 0.890 | 5.37 | 0.971 | | 100g |
| DH-SX32-35 | Blast furnace slag | RM | 15.68 | 0.107 | | | 24.55 | 34.35 | 0.005 | 2.87 | | 0.090 | 6.289 | 0.341 | 0.103 | 100g |

| 编号 | P2O5 | S | SiO2 | SrO | TiO2 | V2O5 | ZrO2 |
|------------|-------|-------|-------|-------|-------|-------|-------|
| DH-SX32-18 | 0.006 | 1.32 | 36.86 | 0.086 | 0.480 | | 0.041 |
| DH-SX32-19 | 0.026 | 0.818 | 39.26 | 0.045 | 0.533 | | |
| DH-SX32-21 | | 1.55 | 35.69 | 0.066 | 0.572 | | |
| DH-SX32-23 | 0.012 | 1.08 | 38.07 | 0.120 | 0.393 | | |
| DH-SX32-24 | | 1.55 | 37.88 | 0.052 | 0.265 | | 0.043 |
| DH-SX32-25 | | 1.55 | 38.06 | 0.053 | 0.247 | | 0.046 |
| DH-SX32-27 | | 0.989 | 37.50 | 0.054 | 0.700 | | 0.039 |
| DH-SX32-28 | 0.014 | 0.781 | 38.69 | 0.062 | 0.638 | 0.007 | 0.035 |
| DH-SX32-30 | | 1.044 | 37.24 | 0.054 | 0.729 | | 0.042 |
| DH-SX32-31 | | 1.069 | 37.31 | 0.055 | 0.776 | | 0.044 |
| DH-SX32-32 | | 1.06 | 39.03 | 0.076 | 0.589 | | 0.022 |
| DH-SX32-33 | 0.026 | 0.804 | 41.53 | 0.047 | 0.621 | 0.019 | 0.046 |
| DH-SX32-34 | | 0.90 | 41.51 | 0.048 | 0.618 | 0.016 | |
| DH-SX32-35 | 0.015 | 1.539 | 39.33 | 0.072 | 0.229 | 0.004 | 0.064 |

| 编号 | Comment | 种类 | Al2O3 | CaO | Fe | FeO | MgO | MnO | MnO2 | P2O5 | S | SiO2 | TiO2 | V2O5 | 规格 |
|--------------|--------------------|-----|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|------|
| NCS HC13808 | Blast furnace slag | CRM | 7.73 | 39.33 | 0.71 | 0.63 | 13.92 | 0.100 | | 0.026 | 0.606 | 36.10 | 0.37 | | 100g |
| NCS HC13809 | Blast furnace slag | CRM | 7.84 | 36.50 | 0.78 | 0.60 | 20.77 | 0.077 | | 0.049 | 0.535 | 30.95 | 0.84 | | 100g |
| NCS HC13810 | Blast furnace slag | CRM | 7.08 | 38.57 | 0.64 | 0.58 | 16.97 | 0.089 | | 0.037 | 0.536 | 34.08 | 0.36 | | 100g |
| NCS HC28803 | Blast furnace slag | CRM | 16.85 | 36.26 | 0.92 | | 9.92 | | 0.78 | 0.018 | 0.75 | 31.82 | 0.52 | | 80g |
| NCS HC28804 | Blast furnace slag | CRM | 16.26 | 37.13 | 2.01 | | 7.52 | | 1.23 | 0.043 | 0.79 | 31.18 | 0.58 | | 80g |
| NCS HC28805 | Blast furnace slag | CRM | 12.80 | 39.20 | 0.76 | | 9.27 | | 0.090 | 0.012 | 0.90 | 34.91 | 0.42 | | 80g |
| VS-W1/2 | Blast furnace slag | CRM | 8.48 | 38.8 | | 0.47 | 9.35 | 0.22 | | | 0.69 | 37.9 | | | 100g |
| VS-W3/2 | Blast furnace slag | CRM | 14.5 | 31.7 | | | 12.1 | 0.58 | | | 0.51 | 30.1 | 9.62 | 0.25 | 100g |
| ECRM-F 803-1 | Blast furnace slag | CRM | 13.19 | 43.28 | 0.613 | | 4.05 | 0.713 | | 0.270 | 0.767 | 36.38 | 0.502 | | 100g |
| NCS HC18806 | Blast furnace slag | CRM | 14.11 | 38.84 | 0.60 | | 8.45 | 0.30 | | 0.008 | 1.13 | 32.75 | 2.63 | | 100g |
| NCS HC18807 | Blast furnace slag | CRM | 16.48 | 35.77 | 1.10 | | 8.77 | 0.74 | | 0.009 | 0.90 | 33.04 | 0.73 | | 100g |

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| 编号 | Comment | 种类 | Al2O3 | CaO | FeO | K2O | MgO | MnO | Na2O | S | SiO2 | TiO2 | 规格 |
|----------|--------------------|-----|-------|-------|------|--------|-------|--------|--------|------|-------|--------|------|
| CAN-SL-1 | Blast furnace slag | CRM | 9.63 | 37.48 | 0.92 | (0.51) | 12.27 | (0.86) | (0.39) | 1.26 | 35.73 | (0.38) | 200g |

Blast furnace slag continued

| 编号 | Comment | 种类 | Al2O3 | CaO | Cu | F | Fe | Fe (tot) | FeO | K2O | MgO | MnO | Na2O | P | P2O5 | 规格 |
|--------------|--------------------|-----|-------|-------|--------|------|------|----------|------|------|------|-------|------|--------|--------|------|
| NCS HC19805 | Blast furnace slag | CRM | 13.85 | 25.57 | | | | 0.80 | | | 9.05 | 0.74 | | | | 100g |
| NCS HC28801 | Blast furnace slag | CRM | 13.83 | 37.95 | | | | 0.253 | | 0.58 | 9.66 | 0.382 | 0.40 | | 0.0072 | 80g |
| NCS HC28802 | Blast furnace slag | CRM | 13.52 | 39.91 | | | | 0.23 | | 0.50 | 8.68 | 0.489 | 0.35 | | 0.0082 | 80g |
| NCS HC15803 | Blast furnace slag | CRM | 13.93 | 39.66 | 0.0013 | | | 1.76 | 2.16 | 0.42 | 5.61 | 0.175 | 0.26 | 0.0056 | | 80g |
| ECRM-F 878-1 | Blast furnace slag | CRM | 15.97 | 35.63 | | 0.15 | 0.60 | | | 1.29 | 9.62 | 1.28 | 0.47 | | 0.029 | 100g |

| 编号 | S | SiO2 | TiO2 | V2O5 |
|--------------|-------|-------|-------|------|
| NCS HC19805 | 0.234 | 22.67 | 25.28 | 0.44 |
| NCS HC28801 | 1.03 | 34.65 | 0.616 | |
| NCS HC28802 | 0.976 | 34.79 | 0.63 | |
| NCS HC15803 | 0.98 | 35.00 | 0.51 | |
| ECRM-F 878-1 | 0.83 | 33.73 | 0.62 | |

Converter slag 转炉渣

| 编号 | Comment | 种类 | Ag | Al2O3 | Ca | Ca (tot) | Co | Cu | F | Fe | Fe (tot) | K2O | MgO | MnO | Mo | 规格 |
|--------------|-----------------------|-----|--------|-------|-------|----------|------|------|------|-------|----------|--------|-------|------|-------|------|
| NCS HC14805 | Converter slag | CRM | | 3.08 | | 25.90 | | | 0.85 | | 18.82 | 0.052 | 11.67 | 1.64 | | 50g |
| NCS HC18808 | Converter slag | CRM | | 1.25 | 24.10 | | | | | 25.55 | | | 11.66 | 3.34 | | 100g |
| IM ZM6 | Copper converter slag | CRM | 0.0031 | | | | 0.39 | 2.12 | | 46.72 | | | | | 0.021 | 250g |
| NCS HC14801A | Converter slag | CRM | | 1.14 | | 41.27 | | | 2.21 | | 7.65 | 0.0055 | 4.37 | 0.71 | | 50g |

| 编号 | Na2O | Ni | P2O5 | S | SiO2 | TiO2 | V |
|--------------|-------|-------|-------|-------|-------|-------|-------|
| NCS HC14805 | 0.030 | | 0.95 | 0.089 | 12.20 | 0.781 | |
| NCS HC18808 | | | 2.00 | 0.13 | 13.44 | 2.22 | |
| IM ZM6 | | 0.080 | | 1.04 | | | 0.006 |
| NCS HC14801A | 0.013 | | 0.914 | 0.100 | 21.72 | 0.612 | |

ESR-slag ESR-炉渣

| 编号 | Comment | 种类 | Al2O3 | C | Ca | Ca (tot) | CaF2 | CaO | F | FeO | MgO | MnO | P | SiO2 | TiO2 | 规格 |
|--------|----------|-----|-------|-------|------|----------|------|------|------|------|------|------|-------|------|------|------|
| JK S10 | ESR-slag | CRM | 0.54 | 0.022 | 50.8 | 50.8 | 70.7 | 20.3 | 34.4 | 0.10 | 0.30 | 0.03 | 0.002 | 7.8 | 0.05 | 100g |
| JK S9 | ESR-slag | CRM | 31.5 | 0.042 | | 39.0 | 35.5 | 29.1 | 17.3 | 0.04 | 2.2 | 0.04 | 0.005 | 1.4 | 0.05 | 100g |

| 编号 | V2O5 |
|--------|---------|
| JK S10 | (<0.01) |
| JK S9 | 0.11 |

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Ferrochromium slag 铬渣

| 编号 | Comment | 种类 | Al2O3 | CaO | Cr2O3 | Fe (tot) | MgO | S (tot) | SiO2 | 规格 |
|---------|--------------------|-----|-------|------|-------|----------|-------|---------|------|------|
| SARM 77 | Ferrochromium slag | CRM | 27.5 | 3.64 | 12.5 | 5.31 | 22.99 | 0.32 | 26.8 | 100g |

Ironmaking slag 炼铁炉渣

| 编号 | Comment | 种类 | Al2O3 | C | CaO | Fe | K2O | MgO | MnO | Na2O | S | SiO2 | TiO2 | 规格 |
|----------|-----------------|----|-------|------|------|------|------|-------|------|------|------|-------|------|------|
| BS-100A | Ironmaking slag | RM | 10.13 | 0.07 | 37.6 | 0.30 | 0.49 | 12.9 | 0.35 | 0.18 | 1.2 | 35.2 | 0.50 | 100g |
| BS-SLAG1 | Ironmaking slag | RM | 18.5 | 0.07 | 30.2 | 0.28 | 0.36 | 11.01 | 1.11 | 0.20 | 1.8 | 36.7 | 0.42 | 50g |
| BS-SLAG2 | Ironmaking slag | RM | 10.3 | 0.20 | 44.6 | 0.23 | 0.17 | 5.87 | 0.19 | 0.16 | 1.14 | 37.0 | 0.20 | 50g |
| BS-SLAG3 | Ironmaking slag | RM | 12.9 | 0.03 | 37.3 | 0.25 | 0.81 | 8.3 | 1.72 | 0.26 | 0.81 | 37.44 | 0.63 | 50g |

LD-slag-LD炉渣

| 编号 | Comment | 种类 | Al2O3 | CaO | Cr | Cr2O3 | CuO | F | Fe | K2O | MgO | Mn | MoO3 | Na2O | Nb2O5 | 规格 |
|------------|---------|----|-------|-------|-------|-------|-----|-------|-------|-------|------|------|-------|-------|-------|------|
| DH-SX39-11 | LD-slag | RM | 0.933 | 50.50 | 0.154 | 0.007 | | | 18.51 | | 1.54 | 4.42 | | | 0.055 | 100g |
| DH-SX39-13 | LD-slag | RM | 0.76 | 56.31 | 0.168 | 0.009 | | | 14.61 | | 1.07 | 4.40 | 0.007 | | 0.077 | 100g |
| DH-SX39-21 | LD-slag | RM | 4.79 | 50.05 | 0.196 | 0.007 | | 0.500 | 16.92 | 0.013 | 2.99 | 2.31 | | 0.020 | 0.030 | 100g |
| DH-SX39-23 | LD-slag | RM | 1.27 | 46.50 | | 0.216 | | 0.030 | 20.33 | 0.013 | 3.23 | 2.74 | | 0.014 | 0.046 | 100g |

| 编号 | P2O5 | S | SiO2 | TiO2 | V2O5 | ZnO |
|------------|------|-------|-------|-------|-------|-------|
| DH-SX39-11 | 2.65 | 0.160 | 8.58 | 0.350 | 0.590 | 0.003 |
| DH-SX39-13 | 2.29 | 0.152 | 9.87 | 0.423 | 0.553 | |
| DH-SX39-21 | 1.36 | 0.196 | 10.56 | 0.780 | 0.422 | |
| DH-SX39-23 | 1.73 | 0.288 | 11.52 | 1.21 | 0.522 | |

Manganese slag 锰矿渣

| 编号 | Comment | 种类 | Al2O3 | Ba | C | CaO | Cr2O3 | CuO | Fe | Fe (tot) | Fe2O3 | H2O (900°C) | K2O | MgO | Mn | 规格 |
|-------------|-----------------------|-----|-------|-------|-------|-------|-------|------|-------|----------|-------|-------------|-------|-------|------|------|
| NCS HC25801 | Manganese slag | CRM | 4.91 | | | 7.79 | | | | 1.77 | | | | 3.99 | | 50g |
| DH-SX74-02 | Manganese slag | RM | 5.99 | | 11.92 | 0.405 | 0.086 | 7.02 | | | 3.96 | 0.077 | 0.164 | 0.118 | | 100g |
| DH-SX74-04 | Manganese slag | RM | 24.61 | 0.925 | | 26.16 | 0.007 | | 0.086 | | | | 0.630 | 7.04 | 2.66 | 100g |
| NCS HC15804 | Manganese-rich slag | CRM | | | 0.014 | | | | 0.22 | | | | | | | 100g |
| VS-W11 | Manganous charge slag | CRM | | | | | | | | | | | | | 48.0 | 150g |

| 编号 | Mn (tot) | Mn3O4 | Na2O | NiO | P | P2O5 | S | SiO2 | SnO2 | SrO | TiO2 | Y2O3 | ZnO |
|-------------|----------|-------|---------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| NCS HC25801 | 35.31 | | | | 0.0056 | | 0.66 | 33.47 | | | | | |
| DH-SX74-02 | | 0.113 | 0.133 | | | 14.03 | 0.114 | 11.01 | 0.386 | | 0.274 | | 45.16 |
| DH-SX74-04 | | | (0.229) | 0.004 | | 0.003 | 0.959 | 37.39 | | 0.109 | 0.164 | 0.014 | |
| NCS HC15804 | 44.42 | | | | 0.0032 | | 0.32 | 25.16 | | | | | |

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VS-W11

0.014

| 编号 | ZrO2 |
|-------------|-------|
| NCS HC25801 | |
| DH-SX74-02 | 0.024 |
| DH-SX74-04 | 0.035 |
| NCS HC15804 | |
| VS-W11 | |

Open hearth slag 平炉渣

| 编号 | Comment | 种类 | Al2O3 | CaO | Fe | FeO | MgO | MnO | P2O5 | S | SiO2 | TiO2 | 规格 |
|-------------|------------------|-----|-------|-------|-------|-------|-------|------|------|-------|-------|------|------|
| NCS HC13811 | Open hearth slag | CRM | 4.47 | 18.11 | 29.44 | 35.40 | 13.19 | 2.32 | 0.91 | 0.050 | 23.35 | 0.51 | 100g |

Phosphate slag 磷矿渣

| 编号 | Comment | 种类 | CaO | P2O5 | P2O5 (sol.) | SiO2 | 规格 |
|--------------|----------------|-----|-------|-------------|-------------|------|------|
| ECRM-D 826-1 | Phosphate slag | CRM | 46.48 | 14.65 (tot) | 10.73 | 8.96 | 100g |
| ECRM-D 827-1 | Phosphate slag | CRM | 47.38 | 20.70 (tot) | 18.79 | 6.21 | 100g |

Silicomanganese slag 硅锰渣

| 编号 | Comment | 种类 | Al2O3 | Ba | CO2 | CaO | Cr2O3 | Fe | H2O (900°C) | K2O | MgO | Mn | Na2O | P2O5 | S | 规格 |
|------------|----------------------|----|-------|---------|-------|-------|-------|-------|-------------|------|-------|------|-------|-------|-------|------|
| DH-SX74-03 | Silicomanganese slag | RM | 19.84 | (0.475) | 0.032 | 15.95 | 0.007 | 0.088 | 0.062 | 1.30 | 12.34 | 4.93 | 0.433 | 0.002 | 0.818 | 100g |

| 编号 | SiO2 | SrO | TiO2 | Y2O3 | ZrO2 |
|------------|-------|-------|-------|---------|-------|
| DH-SX74-03 | 43.23 | 0.083 | 0.100 | (0.009) | 0.039 |

Slag 炉渣

| 编号 | Comment | 种类 | Al2O3 | Ca | F | Fe | MgO | MnO | P2O5 | S | SiO2 | TiO2 | 规格 |
|-------------|---------|-----|-------|-------|--------|------|--------|------|-------|------|-------|------|------|
| NCS HC18809 | Slag | CRM | 21.94 | 35.21 | | 0.30 | 6.55 | 0.18 | 0.024 | 0.69 | 16.50 | 1.03 | 100g |
| IMZ-EZP1 | Slag | CRM | 24.85 | 36.76 | 31.62 | | (0.85) | | | | 2.61 | | 100g |
| IMZ-EZP2 | Slag | CRM | 41.38 | 24.03 | (0.89) | | 16.89 | | | | 5.81 | | 100g |
| IMZ-EZP3 | Slag | CRM | 19.13 | 39.53 | 15.78 | | 8.44 | | | | 1.68 | | 100g |

| 编号 | Comment | 种类 | Al2O3 | CaO | Cr2O3 | Fe | FeO | MgO | MnO | P | P2O5 | S | SiO2 | TiO2 | 规格 |
|-------|---------|-----|--------|-------|--------|-------|-------|--------|-------|---|-------|-------|-------|------|-----|
| N 141 | Slag | CRM | 2.74 | 26.22 | (0.85) | 21.37 | 22.99 | (4.02) | 10.85 | | 2.14 | 0.081 | 22.47 | 0.63 | 75g |
| N 142 | Slag | CRM | 3.13 | 29.56 | 0.55 | 16.52 | 16.89 | 5.38 | 12.09 | | 2.08 | 0.067 | 22.16 | 0.69 | 75g |
| N 143 | Slag | CRM | (0.50) | 42.90 | 0.97 | 14.53 | 8.62 | 5.29 | 2.84 | | 16.71 | 0.083 | 4.88 | 0.15 | 75g |
| N 144 | Slag | CRM | 2.42 | 20.50 | 1.32 | 28.47 | 31.61 | 2.85 | 9.72 | | 2.02 | 0.091 | 22.18 | 0.55 | 75g |
| N 145 | Slag | CRM | 2.39 | 20.85 | 0.99 | 27.97 | 30.46 | 2.71 | 9.26 | | 2.05 | 0.089 | 22.43 | 0.56 | 75g |
| N 146 | Slag | CRM | 4.29 | 40.56 | 0.69 | 20.30 | 18.47 | 5.47 | 5.52 | | 2.11 | 0.165 | 11.38 | 0.39 | 75g |
| N 147 | Slag | CRM | 4.40 | 40.29 | 0.48 | 19.59 | 16.11 | 5.20 | 5.45 | | 2.44 | 0.146 | 12.87 | 0.50 | 75g |

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|---------|------------|-----|-------|--------|-------|-------|-------|---------|--------|--------|-------|-------|------|------|
| N 148 | Slag | CRM | 1.62 | 39.76 | 0.86 | 18.44 | 0.29 | 4.94 | 3.78 | 10.84 | 0.112 | 6.52 | 0.25 | 75g |
| N 149 | Slag | CRM | 3.36 | 9.85 | 53.81 | 14.09 | 8.12 | 2.89 | 3.74 | (0.03) | 0.040 | 8.42 | 0.22 | 75g |
| N 150 | Slag | CRM | 3.23 | 21.77 | 1.74 | 24.23 | 27.30 | (14.46) | 8.16 | 0.62 | 0.044 | 15.69 | 0.15 | 75g |
| N 151 | Slag | CRM | 2.06 | 34.83 | 0.65 | 14.94 | 0.14 | 5.05 | 8.44 | 7.92 | 0.079 | 15.97 | 0.53 | 75g |
| N 152 | Slag | CRM | 2.60 | 21.95 | 28.67 | 14.40 | 12.79 | 6.17 | 4.85 | (0.12) | 0.028 | 15.91 | 0.37 | 75g |
| N 153 | Slag | CRM | 3.37 | 15.17 | 36.50 | 7.09 | 8.05 | 16.68 | 4.47 | (0.01) | 0.036 | 12.12 | 2.26 | 75g |
| N 154 | Slag | CRM | 3.68 | (1.15) | 1.54 | 10.65 | 13.36 | 2.44 | (28.0) | (0.03) | 0.074 | 48.67 | 0.27 | 75g |
| N 155 | Slag | CRM | 10.20 | 34.35 | 0.68 | 13.17 | 0.11 | 4.70 | 3.91 | 4.26 | 0.124 | 19.19 | 0.38 | 75g |
| N 156 | Slag | CRM | 7.80 | 34.66 | 0.75 | 16.35 | 0.14 | 4.66 | 3.81 | 5.98 | 0.111 | 15.20 | 0.36 | 75g |
| VS-W4/4 | Steel slag | CRM | 3.62 | 25.5 | | 23.2 | 25.5 | 18.3 | 4.37 | 0.259 | 0.037 | 16.7 | 1.02 | 100g |

Tin slag 锡矿渣

| 编号 | Comment | 种类 | Al2O3 | CaO | FeO | SiO2 | Sn | | | | | | | 规格 |
|-------------|----------|-----|-------|-------|-------|-------|-------|--|--|--|--|--|--|-----|
| NCS HC35801 | Tin slag | CRM | 7.36 | 4.12 | 46.18 | 19.61 | 11.96 | | | | | | | 70g |
| NCS HC35802 | Tin slag | CRM | 9.32 | 19.76 | 22.22 | 37.49 | 2.32 | | | | | | | 70g |

Titanium and vanadium slag

| 编号 | Comment | 种类 | Al2O3 | CaO | Cr2O3 | Fe | Fe (tot) | LOI | MgO | MnO | P | S | SiO2 | TiO2 | Ti2O3 | 规格 |
|-------------|---------------|-----|-------|-------|-------|------|----------|-----|------|------|---------|-------|-------|-------|--------|------|
| NCS HC19813 | Titanium slag | CRM | 2.64 | 1.52 | | 6.43 | 6.43 | | 5.28 | 1.08 | | 0.118 | 5.50 | 77.66 | | 100g |
| NCS HC19814 | Titanium slag | CRM | 3.04 | 1.83 | | 1.08 | 1.08 | | 7.27 | 0.74 | | 0.247 | 4.13 | 84.94 | | 100g |
| NCS HC19815 | Titanium slag | CRM | 2.62 | 0.287 | | 1.02 | 1.02 | | 2.67 | 1.21 | | 0.166 | 1.92 | 94.69 | | 100g |
| SARM 57 | Titanium slag | CRM | 1.23 | 0.16 | 0.16 | 11.8 | (3.92) | | 0.98 | 1.76 | | | 1.72 | 85.4 | (27.1) | 100g |
| NCS HC18810 | V and Ti slag | CRM | 12.81 | 28.36 | | 2.94 | 2.94 | | 7.08 | 0.48 | (0.006) | 0.52 | 25.55 | 21.01 | | 100g |
| NCS HC18811 | V and Ti slag | CRM | 8.63 | 37.33 | | 1.59 | 1.59 | | 4.75 | 0.15 | 0.016 | 0.64 | 40.93 | 3.39 | | 100g |
| VS-W9/3 | Vanadium slag | CRM | 1.76 | 1.61 | 3.32 | 28.9 | | | 3.53 | 9.73 | 0.015 | | 16.63 | 7.39 | | 150g |

| 编号 | V2O5 |
|-------------|-------|
| NCS HC19813 | |
| NCS HC19814 | |
| NCS HC19815 | |
| SARM 57 | 0.39 |
| NCS HC18810 | 0.20 |
| NCS HC18811 | 0.028 |
| VS-W9/3 | 22.2 |

Tundish slag

| 编号 | Comment | 种类 | Al2O3 | C (tot) | CO2 | CaO | Co3O4 | Cr2O3 | Fe2O3 | C) | K2O | MgO | Mn3O4 | MnO | Na2O | 规格 |
|------------|--------------|----|-------|---------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|
| DH-SX66-04 | Tundish slag | RM | 1.884 | 0.471 | 0.35 | 1.609 | | 0.255 | 4.62 | 1.02 | 0.089 | 64.45 | 0.098 | | 0.516 | 100g |
| DH-SX66-05 | Tundish slag | RM | 1.252 | 0.38 | | 1.35 | 0.010 | 0.223 | 4.94 | | 0.072 | 62.58 | | 0.105 | 0.347 | 100g |
| DH-SX66-06 | Tundish slag | RM | 1.301 | 0.38 | | 1.377 | | 0.216 | 4.91 | 1.15 | 0.069 | 62.70 | 0.097 | | | 100g |

| 编号 | NiO | P2O5 | S | SO3 | SiO2 | TiO2 |
|----|-----|------|---|-----|------|------|
|----|-----|------|---|-----|------|------|

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| DH-SX66-04 | 0.165 | 0.084 | | 0.026 | 24.75 | 0.141 |
| DH-SX66-05 | 0.220 | 0.041 | 0.019 | | 27.08 | 0.090 |
| DH-SX66-06 | 0.216 | 0.057 | | 0.052 | 27.49 | 0.101 |

Vacuum slag真空炉渣

| 编号 | Comment | 种类 | Al2O3 | CaO | Cr | Cr2O3 | Fe | Fe (tot) | Fe (metallic) | K2O | MgO | Mn | MnO | Nb2O5 | P | 规格 |
|-------------|-------------|-----|-------|-------|-------|-------|-------|----------|---------------|-------|-------|-------|-------|-------|-------|------|
| NCS HC19810 | Vacuum slag | CRM | 1.25 | 2.04 | | 0.93 | | 31.26 | 0.22 | | 1.9 | | 10.67 | | 0.046 | 80g |
| NCS HC19812 | Vacuum slag | CRM | 2.05 | 3.19 | | 0.94 | | 32.16 | 0.24 | | 1.86 | | 9.05 | | 0.064 | 80g |
| DH-SX51-15 | Vacuum slag | RM | 38.33 | 46.80 | 0.008 | | 0.320 | | | | 7.89 | 0.077 | | | | 100g |
| DH-SX51-19 | Vacuum slag | RM | 17.04 | 53.43 | | 0.075 | 2.54 | | | 0.012 | 10.84 | 2.48 | | 0.270 | | 100g |
| DH-SX51-20 | Vacuum slag | RM | 20.33 | 52.90 | | 0.039 | 1.55 | | | 0.011 | 11.68 | 1.27 | | 0.202 | | 100g |
| DH-SX51-21 | Vacuum slag | RM | 23.56 | 51.14 | 0.039 | | 1.27 | | | 0.011 | 11.98 | 0.769 | | 0.109 | | 100g |

| 编号 | P2O5 | S | SiO2 | SrO | TiO2 | V2O5 | ZrO2 |
|-------------|-------|-------|-------|-------|-------|-------|-------|
| NCS HC19810 | | 0.052 | 18.25 | | 10.02 | 17.2 | |
| NCS HC19812 | | 0.066 | 18.26 | | 9.15 | 15.79 | |
| DH-SX51-15 | | 1.27 | 2.711 | 0.028 | 0.122 | | 0.015 |
| DH-SX51-19 | 0.102 | 0.188 | 8.30 | 0.033 | 1.37 | 0.053 | 0.240 |
| DH-SX51-20 | 0.039 | 0.281 | 8.13 | 0.032 | 1.28 | 0.016 | 0.230 |
| DH-SX51-21 | 0.028 | 0.369 | 7.63 | 0.031 | 0.869 | 0.012 | 0.232 |

Slags炉渣

| 编号 | Comment | 种类 | Al2O3 | CaO | Cr2O3 | Fe | Fe (tot) | FeO | K2O | MgO | MnO | Na2O | P2O5 | P2O5 (sol.) | S | 规格 |
|-----------------|---------------------------|-----|-------|------|-------|------|----------|------|---------|------|------|---------|------------|-------------|------|------|
| BAS-BCS-CRM 381 | Steelmaking slag | CRM | 0.67 | 49.0 | 0.33 | 13.3 | | 3.69 | | 1.03 | 3.16 | | 15.7 (tot) | 15.2 | 0.19 | 100g |
| BS-101/1 | Basic oxygen furnace slag | RM | 0.61 | 52.4 | | 6.3 | | | (0.003) | 9.2 | 3.45 | 0.009 | 0.78 | | 0.18 | 100g |
| BS-101/2 | Basic oxygen furnace slag | RM | 0.9 | 47.0 | | 15.2 | | | (0.006) | 8.1 | 4.8 | 0.031 | 0.70 | | 0.23 | 100g |
| BS-101/3 | Basic oxygen furnace slag | RM | 1.47 | 53.7 | | 11.0 | | | (0.006) | 3.1 | 5.2 | (0.028) | 0.77 | | 0.19 | 100g |
| BS-101/4 | Basic oxygen furnace slag | RM | 0.86 | 52.5 | | | 13.3 | | 0.007 | 4.8 | 4.79 | 0.018 | 0.81 | | 0.15 | 100g |
| BS-101/5 | Basic oxygen furnace slag | RM | 0.57 | 46.0 | | 19.2 | | | (0.005) | 5.5 | 5.7 | (0.043) | 0.71 | | 0.12 | 100g |

| 编号 | SiO2 | TiO2 | V2O5 |
|-----------------|------|------|------|
| BAS-BCS-CRM 381 | 8.78 | 0.35 | 0.94 |
| BS-101/1 | 23.7 | 0.8 | |
| BS-101/2 | 16.8 | 0.8 | |
| BS-101/3 | 18.8 | 0.92 | |
| BS-101/4 | 16.7 | 1.16 | |
| BS-101/5 | 14.9 | 1.1 | |

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Stones and rocks 岩石标样

Andalusite 红柱石

| 编号 | 描述 | 种类 | Al ₂ O ₃ | CaO | Fe ₂ O ₃ | K ₂ O | LOI | MgO | Na ₂ O | SiO ₂ | TiO ₂ | 规格 |
|---------|------------|-----|--------------------------------|--------|--------------------------------|------------------|---------|---------|-------------------|------------------|------------------|------|
| SARM 34 | Andalusite | CRM | 59.15 | (0.13) | 0.75 | 0.23(8) | 0.62(2) | 0.13(1) | 0.093 | 39.04 | 0.16(8) | 100g |

Andesite 安山岩

| 编号 | 描述 | 种类 | Ag | Al | Al ₂ O ₃ | As | Au | B | Ba | Be | Bi | Br | C | C (org) | CO ₂ | 规格 |
|--------------|----------|-----|-------------|------|--------------------------------|------------|-------------|------------|--------|----------|--------------|------------|----------|---------|-----------------|------|
| NIM-GBW07104 | Andesite | CRM | 0.000071 | | 16.17 | 0.00021 | 0.000000095 | 0.00047 | 0.1020 | 0.00011 | 0.0000081 | | | | 3.47 | 70g |
| NIM-GBW07110 | Andesite | CRM | 0.000017 | | 16.1 | 0.000596 | | 0.00108 | 0.1053 | 0.000364 | 0.000009 | (0.000055) | | (0.29) | 1.03 | 70g |
| GJSJ-JA-1 | Andesite | CRM | (0.0000033) | 8.06 | 15.22 | 0.000278 | 0.000000016 | 0.00210 | 0.0311 | 0.000050 | (0.00000091) | | (0.0271) | | | 20g |
| GJSJ-JA-1A | Andesite | CRM | | | | | | (0.032226) | | | | | | | | 100g |
| GJSJ-JA-2 | Andesite | CRM | (0.0000043) | 8.16 | 15.41 | (0.000085) | 0.000000026 | 0.00207 | 0.0321 | 0.000205 | (0.000007) | | (0.0141) | | | 20g |
| GJSJ-JA-3 | Andesite | CRM | 0.0000084 | 8.23 | 15.56 | (0.000468) | 0.000000095 | 0.00248 | 0.0323 | 0.000080 | (0.000005) | | (0.0061) | | | 20g |
| UG-AGV-2 | Andesite | CRM | | 8.95 | 16.91 | | | | 0.1140 | 0.00023 | | | | | | 30g |

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| | | | | | | | | | | | | | | | |
|----------------|----------|-----|------------|-------|------------|---------|--------|------------|------------|--|--|--|------|--|------|
| CGL-USZ48-2009 | Andesite | CRM | (0.000008) | 16.72 | (0.000364) | | 0.0672 | (0.000201) | (0.000012) | | | | | | 100g |
| VS-MO12 | Andesite | CRM | | 16.74 | | 0.00093 | 0.0311 | 0.00023 | | | | | 0.0 | | 40g |
| VS-MO15 | Andesite | CRM | | 19.03 | | 0.00099 | 0.0225 | 0.00022 | | | | | 0.20 | | 40g |

| 编号 | Ca | CaO | Cd | Ce | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | F |
|----------------|------|--------|-------------|---------|----------|-------------|-----------|------------|-------------|------------|------------|------------|----------|
| NIM-GBW07104 | | 5.20 | 0.0000061 | 0.0040 | (0.0046) | 0.00132 | 0.0032 | 0.00023 | 0.0055 | 0.000185 | 0.000085 | 0.000102 | 0.0280 |
| NIM-GBW07110 | | 2.47 | 0.000061 | 0.0117 | 0.016 | 0.00079 | 0.00077 | 0.000716 | 0.00091 | 0.000532 | 0.000293 | 0.000196 | 0.112 |
| GSJ-JA-1 | 4.07 | 5.70 | 0.000011 | 0.00133 | 0.00430 | 0.00123 | 0.000783 | 0.000062 | 0.00430 | 0.000455 | 0.000304 | 0.000120 | 0.0161 |
| GSJ-JA-1A | | 5.8135 | | | | (0.0012993) | (<0.0010) | | (0.0041727) | | | | |
| GSJ-JA-2 | 4.50 | 6.29 | (0.0000078) | 0.00327 | | 0.00295 | 0.0436 | 0.000463 | 0.00297 | 0.000280 | 0.000148 | 0.000093 | (0.0223) |
| GSJ-JA-3 | 4.46 | 6.24 | (0.0000089) | 0.00228 | | 0.00211 | 0.00662 | 0.000208 | 0.00434 | 0.000301 | 0.000157 | 0.000082 | (0.0286) |
| UG-AGV-2 | 3.72 | 5.20 | | 0.0068 | | 0.0016 | 0.0017 | (0.000116) | 0.0053 | 0.00036 | (0.000179) | (0.000154) | (0.0440) |
| CGL-USZ48-2009 | | 5.58 | (0.000006) | 0.00552 | | 0.00192 | 0.00959 | 0.000109 | 0.00412 | (0.000255) | (0.000118) | 0.000144 | |
| VS-MO12 | | 8.73 | | | 0.0240 | 0.0044 | 0.0181 | 0.00006 | 0.0054 | | | | 0.0600 |
| VS-MO15 | | 0.30 | | | 0.0650 | 0.0034 | 0.0136 | 0.00014 | 0.0028 | | | | 0.1600 |

| 编号 | Fe | FeO | Fe2O3 | Fe (tot)* | Ga | Gd | Ge | H2O | H2O+ | H2O (tot) | Hf | Hg | Ho |
|----------------|------|--------|-------|-----------|---------|------------|------------|---------|-------|-----------|------------|--------------|------------|
| NIM-GBW07104 | | 2.39 | | 4.90 | 0.00181 | 0.00027 | 0.000093 | | (1.5) | | 0.00029 | 0.0000012 | 0.000034 |
| NIM-GBW07110 | | 0.19 | 4.51 | | 0.00198 | 0.000654 | 0.000111 | | 1.79 | | 0.00075 | 0.0000014 | 0.000110 |
| GSJ-JA-1 | 4.95 | 3.98 | 2.59 | 7.07 | 0.00167 | 0.000436 | 0.000133 | 0.30* | 0.72 | | 0.000242 | (0.00000117) | 0.000095 |
| GSJ-JA-1A | | 3.77 | 3.08 | 7.2657 | | | | 0.1973* | 0.33 | | | | |
| GSJ-JA-2 | 4.34 | 3.69 | 2.16 | 6.21 | 0.00169 | 0.000306 | (0.000105) | 1.25* | 1.12 | | 0.000286 | (0.00000018) | 0.000050 |
| GSJ-JA-3 | 4.62 | 4.83 | 1.15 | 6.60 | 0.00163 | 0.000296 | | 0.11* | 0.20 | | 0.000342 | (0.00000019) | 0.000051 |
| UG-AGV-2 | 4.68 | | | 6.69 | 0.0020 | (0.000469) | | | | | (0.000508) | | (0.000071) |
| CGL-USZ48-2009 | | (1.66) | | 5.43 | 0.00211 | (0.000393) | | | | | 0.000380 | (0.00000004) | (0.000046) |
| VS-MO12 | | 6.82 | 2.96 | 10.54 | 0.0019 | | | 0.095 | 0.18 | 0.28 | | | |
| VS-MO15 | | 4.90 | 4.09 | 10.07 | 0.0020 | | | 0.32 | 1.34 | 1.66 | | | |

* H2O-

continued on next page



| 编号 | I | In (ppm) | Ir (ppm) | K | K2O | La | Li | LOI | Lu | Mg | MgO | Mn | MnO |
|----------------|-------------|----------|-------------|------|--------|----------|-------------|--------|------------|------|--------|--------|-------|
| NIM-GBW07104 | (0.000014) | 0.037 | | | 1.89 | 0.0022 | 0.00183 | 4.44 | 0.000012 | | 1.72 | 0.0604 | |
| NIM-GBW07110 | 0.000007 | 0.11 | | | 5.17 | 0.00625 | 0.00175 | | 0.000049 | | 0.84 | | 0.089 |
| GSJ-JA-1 | (0.0000015) | (0.0494) | (0.0000028) | 0.64 | 0.77 | 0.000524 | 0.00108 | | 0.000047 | 0.95 | 1.57 | 0.122 | 0.157 |
| GSJ-JA-1A | | | | | 0.7799 | | (0.0011619) | 0.2855 | | | 1.5647 | | 0.16 |
| GSJ-JA-2 | (0.0000005) | | (0.000013) | 1.50 | 1.81 | 0.00158 | 0.00273 | | 0.000027 | 4.58 | 7.60 | 0.084 | 0.108 |
| GSJ-JA-3 | | | (0.000014) | 1.17 | 1.41 | 0.000933 | 0.00145 | | 0.000032 | 2.24 | 3.72 | 0.081 | 0.104 |
| UG-AGV-2 | | | | 2.39 | 2.88 | 0.0038 | (0.0011) | | (0.000025) | 1.08 | 1.79 | 0.0770 | |
| CGL-USZ48-2009 | | | | | 2.42 | 0.00262 | (0.00132) | 1.39 | (0.000015) | | 3.52 | | 0.081 |
| VS-MO12 | | | | | 1.12 | 0.0045 | 0.00092 | | | | 7.38 | | 0.14 |
| VS-MO15 | | | | | 1.51 | 0.0069 | 0.0016 | | | | 5.23 | | 0.059 |

| 编号 | Mo | Na | Na2O | Nb | Nd | Ni | P | P2O5 | Pb | Pd (ppm) | Pr | Pt (ppm) | Rb |
|--------------|----------|----|------|---------|--------|--------|--------|------|---------|----------|---------|----------|--------|
| NIM-GBW07104 | 0.000054 | | 3.86 | 0.00068 | 0.0019 | 0.0017 | 0.1030 | | 0.00113 | | 0.00049 | | 0.0038 |

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|----------------|------------|------|---------|----------|---------|--------------|-------|---------|----------|-----------|------------|----------|---------|
| NIM-GBW07110 | 0.000095 | 3.06 | 0.00208 | 0.00472 | 0.00126 | | 0.36 | 0.00977 | | 0.00132 | | 0.0183 | |
| GSJ-JA-1 | 0.000159 | 2.85 | 3.84 | 0.000185 | 0.00109 | (0.000349) | 0.072 | 0.165 | 0.000655 | (<0.0002) | 0.000171 | (0.0005) | 0.00123 |
| GSJ-JA-1A | | | 3.9355 | | | (0.00027082) | | 0.17 | | | | | |
| GSJ-JA-2 | 0.000060 | 2.31 | 3.11 | 0.000947 | 0.00139 | 0.0130 | 0.064 | 0.146 | 0.00192 | (0.0005) | 0.000384 | (0.0013) | 0.00729 |
| GSJ-JA-3 | 0.000189 | 2.37 | 3.19 | 0.000341 | 0.00123 | 0.00322 | 0.051 | 0.116 | 0.000770 | (0.0010) | 0.000240 | (0.0017) | 0.00367 |
| UG-AGV-2 | | 3.11 | 4.19 | 0.0015 | 0.0030 | 0.0019 | 0.21 | 0.48 | 0.0013 | | 0.00083 | | 0.00686 |
| CGL-USZ48-2009 | (0.000060) | | 4.46 | 0.000323 | 0.00272 | 0.00612 | | 0.264 | 0.00187 | | (0.000677) | | 0.00497 |
| VS-MO12 | 0.00039 | | 3.85 | 0.0014 | | 0.0137 | | 0.45 | 0.0011 | | | | 0.0016 |
| VS-MO15 | 0.00034 | | 4.39 | 0.0013 | | 0.0090 | | 0.39 | 0.00088 | | | | 0.0050 |

| 编号 | Re (ppm) | S | Sb | Sc | Se | Si | SiO2 | Sm | Sn | Sr | Ta | Tb | Te |
|----------------|------------|----------|------------|----------|--------------|-------|--------|-----------|------------|------------|------------|------------|-------------|
| NIM-GBW07104 | | 0.0192 | 0.000012 | 0.00095 | (0.000004) | | 60.62 | 0.00034 | 0.000079 | 0.0790 | 0.000040 | 0.000041 | 0.0000017 |
| NIM-GBW07110 | | 0.023 | 0.000134 | 0.000752 | 0.000003 | | 63.06 | 0.000863 | 0.000312 | 0.0318 | 0.000142 | 0.000099 | (0.0000007) |
| GSJ-JA-1 | (0.00045) | 0.00216 | 0.000022 | 0.00285 | (0.00000088) | 29.90 | 63.97 | 0.000352 | (0.000116) | 0.0263 | 0.000013 | 0.000075 | |
| GSJ-JA-1A | | | | | | | 63.719 | | | (0.026858) | | | |
| GSJ-JA-2 | (0.000063) | (0.0008) | (0.000014) | 0.00196 | | 26.37 | 56.42 | 0.000311 | 0.000168 | 0.0248 | 0.000080 | 0.000044 | |
| GSJ-JA-3 | (0.00065) | (0.0214) | (0.000032) | 0.00220 | | 29.11 | 62.27 | 0.000305 | (0.000095) | 0.0287 | 0.000027 | 0.000052 | |
| UG-AGV-2 | | | (0.00006) | 0.0013 | | 27.7 | 59.3 | (0.00057) | (0.00023) | 0.0658 | (0.000089) | (0.000064) | |
| CGL-USZ48-2009 | | | (0.000027) | 0.00118 | | | 59.20 | 0.000516 | (0.000086) | 0.1116 | (0.000025) | 0.000049 | |
| VS-MO12 | | 0.0060 | | 0.0022 | | | 49.87 | | 0.00039 | 0.0865 | | | |
| VS-MO15 | | 0.0160 | | 0.0029 | | | 40.55 | | 0.00042 | 0.0554 | | | |

| 编号 | Th | Ti | TiO2 | Tl | Tm | U | V | W | Y | Yb | Zn | Zr |
|----------------|----------|--------|--------|------------|------------|----------|---------|------------|---------|----------|-------------|-------------|
| NIM-GBW07104 | 0.00026 | 0.3090 | | 0.000016 | 0.000015 | 0.000090 | 0.0094 | (0.000045) | 0.00093 | 0.000089 | 0.0071 | 0.0099 |
| NIM-GBW07110 | 0.00167 | | 0.80 | 0.000102 | 0.000050 | 0.000304 | 0.00643 | 0.000162 | 0.00280 | 0.000315 | 0.0164 | 0.0335 |
| GSJ-JA-1 | 0.000082 | 0.51 | 0.85 | (0.000013) | 0.000047 | 0.000034 | 0.0105 | (0.000034) | 0.00306 | 0.000303 | 0.00909 | 0.00883 |
| GSJ-JA-1A | | | 0.8757 | | | | | | | | (0.0091258) | (0.0094925) |
| GSJ-JA-2 | 0.000503 | 0.40 | 0.66 | 0.000032 | 0.000028 | 0.000221 | 0.0126 | (0.000099) | 0.00183 | 0.000162 | 0.00647 | 0.0116 |
| GSJ-JA-3 | 0.000325 | 0.42 | 0.70 | (0.000023) | (0.000028) | 0.000118 | 0.0169 | (0.000807) | 0.00212 | 0.000216 | 0.00677 | 0.0118 |
| UG-AGV-2 | 0.00061 | 0.63 | 1.05 | (0.000027) | (0.000026) | 0.000188 | 0.0120 | | 0.0020 | 0.00016 | 0.0086 | 0.0230 |
| CGL-USZ48-2009 | 0.000646 | | 0.71 | (0.000022) | (0.000017) | 0.000196 | 0.0123 | (0.000170) | 0.00118 | 0.000100 | 0.00715 | 0.0141 |
| VS-MO12 | | | 1.61 | | | | 0.0199 | | 0.0034 | 0.00033 | 0.0130 | 0.0152 |
| VS-MO15 | | | 1.68 | | | | 0.0234 | | 0.0039 | 0.00026 | 0.0033 | 0.0152 |

Anhydrite硬石膏

| 编号 | 描述 | 种类 | Al2O3 | B | Ba | CO2 | CaO | Cl | Cr | Cs | Cu | Fe2O3 | Ga | H2O | K2O | 规格 |
|------|-----------|-----|---------|--------|---------|---------|-------|-----------|----------|-----------|--------|-------|-----------|-----------|---------|-----|
| Z AN | Anhydrite | CRM | (0.023) | 0.0100 | 0.00148 | 0.65 | 40.7 | 0.0000033 | 0.000090 | 0.0000037 | 0.0004 | 0.014 | 0.00043 | (0.5) | 0.013 | 50g |
| 编号 | | | Li | MgO | MnO | Mo | Na2O | Rb | SO3 | Sb | SiO2 | Sr | Ta | Th | TiO2 | |
| Z AN | | | 0.0009 | 0.34 | (0.002) | 0.00012 | 0.032 | 0.00047 | 57.6 | 0.0000044 | (0.22) | 0.14 | 0.0000007 | 0.0000048 | (0.003) | |

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| 编号 | V | Zn | Zr |
|------|--------|---------|--------|
| Z AN | 0.0018 | 0.00079 | 0.0013 |

Anorthosite 钙长石

| 编号 | 描述 | 种类 | Al ₂ O ₃ | B | Ba | Be | CO ₂ | CaO | Cl | Co | Cr | Cs | Cu | F | FeO | 规格 |
|------------|-------------|-----|--------------------------------|---------|--------|---------|-----------------|-------|--------|---------|--------|----------|--------|--------|------|-----|
| VS-2120-81 | Anorthosite | CRM | 22.78 | | 0.051 | 0.00009 | 0.36 | 10.06 | | 0.0023 | 0.0036 | | 0.0031 | | 4.66 | 40g |
| VS-MO10 | Anorthosite | CRM | 23.91 | 0.00087 | 0.0294 | 0.00011 | 0.14 | 10.18 | 0.0240 | 0.0027 | 0.0023 | 0.000055 | 0.0044 | 0.0380 | 4.40 | 40g |
| VS-MO11 | Anorthosite | CRM | 27.42 | 0.00045 | 0.0319 | 0.00008 | 0.0 | 10.95 | 0.0240 | 0.00096 | 0.0012 | 0.000073 | 0.0026 | 0.0420 | 1.09 | 40g |

| 编号 | Fe ₂ O ₃ | Fe (tot)* | Ga | H ₂ O | H ₂ O+ | H ₂ O (tot) | K ₂ O | La | Li | MgO | MnO | Mo | Na ₂ O |
|------------|--------------------------------|-----------|--------|------------------|-------------------|------------------------|------------------|--------|---------|------|-------|---------|-------------------|
| VS-2120-81 | 6.26 | | 0.0017 | 0.40 | | | 0.76 | | | 2.10 | 0.076 | | 4.04 |
| VS-MO10 | 1.45 | 6.34 | 0.0026 | 0.095 | 0.26 | 0.36 | 0.50 | 0.0024 | 0.00071 | 2.24 | 0.073 | 0.00020 | 3.99 |
| VS-MO11 | 0.53 | 1.74 | 0.0021 | 0.088 | 0.33 | 0.42 | 0.65 | 0.0020 | 0.00075 | 0.49 | 0.037 | 0.00012 | 4.39 |

| 编号 | Nb | Ni | P ₂ O ₅ | Pb | Rb | S | Sc | SiO ₂ | Sn | Sr | TiO ₂ | V | Y |
|------------|---------|--------|-------------------------------|---------|---------|--------|--------|------------------|---------|----------|------------------|--------|--------|
| VS-2120-81 | | 0.0010 | 0.140 | 0.0007 | | 0.069 | 0.0023 | 51.77 | | | 1.87 | 0.013 | |
| VS-MO10 | 0.00039 | 0.0032 | 0.13 | 0.00080 | 0.00055 | 0.0460 | 0.0011 | 51.65 | 0.00050 | 0.0477 | 0.83 | 0.0109 | 0.0017 |
| VS-MO11 | 0.00026 | 0.0014 | 0.041 | 0.00068 | 0.00027 | 0.0100 | 0.0005 | 53.46 | 0.00051 | (0.0802) | 0.18 | 0.0024 | 0.0008 |

| 编号 | Yb | Zn | Zr |
|------------|---------|--------|--------|
| VS-2120-81 | | 0.0083 | 0.0072 |
| VS-MO10 | 0.00020 | 0.0096 | 0.0058 |
| VS-MO11 | 0.00011 | 0.0050 | 0.0042 |

Aragonite 霏细石文石

| 编号 | 描述 | 种类 | Al ₂ O ₃ | CO ₂ | CaO | F | Fe ₂ O ₃ | K ₂ O | LOI | MgO | Na ₂ O | P ₂ O ₅ | S | SiO ₂ | SrO | 规格 |
|-------|-----------|-----|--------------------------------|-----------------|------|------|--------------------------------|------------------|-------|-------|-------------------|-------------------------------|-------|------------------|------|------|
| UN AK | Aragonite | CRM | 0.11 | 43.0 | 54.9 | 0.20 | 0.130 | 0.037 | 43.27 | 0.110 | 0.047 | 0.029 | 0.046 | 0.64 | 0.28 | 100g |

Basalt 玄武岩

| 编号 | 描述 | 种类 | Ag | Al | Al ₂ O ₃ | As | Au (ppm) | B | Ba | Be | Bi | C | CO ₂ | Ca | 规格 |
|----|----|----|----|----|--------------------------------|----|----------|---|----|----|----|---|-----------------|----|----|
|----|----|----|----|----|--------------------------------|----|----------|---|----|----|----|---|-----------------|----|----|

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|----------------|------------------|-----|-------------|-------|-----------|------------|----------|------------|----------|------------|-------------|----------|--|------|------------|
| CGL-USZ53-2010 | Basalt (CGL 014) | CRM | | 13.03 | | | | 0.0474 | | | | | | | 100g |
| NIM-GBW07105 | Basalt | CRM | 0.0000040 | 13.83 | (0.00007) | (0.00066) | 0.00035 | 0.0527 | 0.00025 | 0.0000048 | | (0.19) | | | 70g |
| Z BM | Basalt | CRM | (0.8) | 16.25 | 0.0013 | | (0.0012) | 0.0250 | 0.00013 | | | 1.35 | | | 50g |
| GSJ-JB-1B | Basalt | CRM | | 14.38 | 0.000124 | | | | 0.00013 | | 0.0419 | | | | 100g |
| GSJ-JB-2 | Basalt | CRM | (0.0000072) | 7.75 | 14.64 | 0.000287 | 0.00564 | 0.00302 | 0.0222 | (0.000026) | (0.0000033) | (0.0218) | | 7.02 | 20g |
| GSJ-JB-3 | Basalt | CRM | 0.0000075 | 9.10 | 17.20 | 0.000184 | 0.00199 | 0.00180 | 0.0245 | 0.000081 | (0.0000023) | (0.0120) | | 7.00 | 20g / 100g |
| NIST-688 | Basalt | CRM | | | 17.36 | | | | | | | | | | 60g |
| UG-BCR-2 | Basalt | CRM | | 7.14 | 13.5 | | | | 0.0683 | | | | | 5.09 | 50g |
| UG-BHVO-2 | Basalt | CRM | | 7.16 | 13.5 | | | | 0.0130 | | | | | 8.17 | 50g |
| UG-BIR-1a | Basalt | CRM | | | 15.5 | (0.000044) | | (0.000033) | (0.0006) | (0.000058) | | | | | 30g |
| CGL-USZ46-2008 | Basalt | CRM | | | 14.50 | | | | 0.0772 | 0.000281 | | | | | 100g |
| VS-2116-81 | Basalt | CRM | | | 16.53 | | | | 0.0300 | 0.00023 | | (0.13) | | | 40g |

| 编号 | CaO | Cd | Ce | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | F | Fe | Fe (tot) |
|----------------|---------|-----------|----------|----------|----------|---------|-----------|----------|------------|------------|------------|----------|-------|----------|
| CGL-USZ53-2010 | 8.88 | | 0.006751 | | 0.004650 | 0.0188 | (0.00006) | 0.006400 | (0.000523) | (0.000221) | (0.000248) | (0.08) | | |
| NIM-GBW07105 | 8.81 | 0.0000067 | 0.0105 | (0.0114) | 0.00465 | 0.0134 | (0.00007) | 0.0049 | 0.00056 | 0.00020 | 0.00032 | 0.0700 | | |
| Z BM | 6.47 | | | | 0.0036 | 0.0121 | | 0.00020 | 0.0043 | (0.00046) | (0.00027) | 0.000112 | 0.028 | |
| GSJ-JB-1B | 9.6 | | | | 0.00403 | 0.0439 | 0.000121 | 0.00555 | | | | | | |
| GSJ-JB-2 | 9.82 | 0.000014 | 0.000676 | 0.0281 | 0.00380 | 0.00281 | 0.000085 | 0.0225 | 0.000373 | 0.000260 | 0.000086 | 0.00985 | 9.97 | |
| GSJ-JB-3 | 9.79 | 0.0000081 | 0.00215 | (0.0259) | 0.00343 | 0.00581 | 0.000094 | 0.0194 | 0.000454 | 0.000249 | 0.000132 | 0.0253 | 8.27 | |
| NIST-688 | (12.17) | | | | | 0.0332 | | | | | | | | |
| UG-BCR-2 | 7.12 | | 0.0053 | | 0.0037 | 0.0018 | (0.00011) | (0.0019) | | | 0.00020 | (0.0440) | | 9.65 |
| UG-BHVO-2 | 11.4 | | 0.0038 | | 0.0045 | 0.0280 | | 0.0127 | | | | (0.0370) | | 8.63 |
| UG-BIR-1a | 13.3 | | 0.0002 | (0.0026) | 0.0052 | 0.0370 | | 0.0125 | 0.0004 | | 0.000055 | (0.0044) | | |
| CGL-USZ46-2008 | 5.41 | | 0.0103 | | 0.00363 | 0.0222 | 0.000115 | 0.003221 | 0.000467 | 0.000184 | 0.000262 | | | |
| VS-2116-81 | 8.87 | | | | 0.0037 | 0.0099 | | 0.0061 | | | | 0.0480 | | |

| 编号 | FeO | Fe2O3 | Fe (tot)* | Ga | Gd | Ge | H2O | H2O+ | Hf | Hg (ppm) | Ho | I | In |
|----------------|--------|-------|-----------|----------|------------|-----------|--------|--------|------------|----------|------------|-------------|-------------|
| CGL-USZ53-2010 | (7.91) | | 12.66 | 0.002120 | (0.000730) | | (0.13) | (0.37) | (0.000525) | | (0.000091) | | |
| NIM-GBW07105 | 7.60 | | 13.40 | 0.00248 | 0.00085 | 0.000098 | | 2.86 | 0.00065 | 0.006 | 0.000088 | | 0.0000064 |
| Z BM | 7.28 | 9.67 | | 0.0016 | (0.00058) | (0.00013) | 3.62 | | 0.00030 | | (0.00014) | | |
| GSJ-JB-1B | 5.16 | 3.29 | 9.02 | | | | 1.06 | 1.53 | | | | | |
| GSJ-JB-2 | 9.98 | 3.33 | 14.25 | 0.00170 | 0.000328 | 0.000135 | 0.13 | 0.25 | 0.000149 | 0.00478 | 0.000075 | (0.0000049) | 0.0000094 |
| GSJ-JB-3 | 7.85 | 3.20 | 11.82 | 0.00198 | 0.000467 | 0.000112 | 0.07 | 0.18 | 0.000267 | (0.0024) | 0.000080 | (0.0000028) | (0.0000069) |
| NIST-688 | 7.64 | 10.35 | | | | | | | | | | | |
| UG-BCR-2 | | | 13.8 | 0.0023 | 0.00068 | | | | (0.00048) | | (0.000133) | | |
| UG-BHVO-2 | | | 12.3 | 0.00217 | (0.00063) | | | | 0.00041 | | (0.000104) | | |
| UG-BIR-1a | 8.34 | 2.06 | 11.3 | (0.0016) | 0.0002 | | | | 0.00006 | | | | |
| CGL-USZ46-2008 | 6.15 | 9.85 | | 0.002263 | 0.000717 | 0.000129 | | | 0.000663 | | 0.000078 | | |
| VS-2116-81 | 7.71 | 11.07 | | 0.0022 | | 0.00011 | 1.34 | | | | | | |

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| 编号 | K | K2O | La | Li | LOI | Lu | Mg | MgO | Mn | MnO | Mo | Na |
|----------------|------|-------|----------|------------|--------|------------|------|-------|--------|-------|------------|------|
| CGL-USZ53-2010 | | 1.72 | 0.003511 | (0.000933) | (0.17) | (0.000022) | | 8.03 | | 0.15 | (0.000292) | |
| NIM-GBW07105 | | 2.32 | 0.0056 | 0.00095 | (2.24) | 0.000019 | | 7.77 | 0.1310 | | 0.00026 | |
| Z BM | | 0.20 | 0.0009 | 0.0072 | | 0.000041 | | 7.47 | | 0.140 | (0.00008) | |
| GSJ-JB-1B | | 1.32 | | 0.00108 | | | | 8.14 | | 0.147 | | |
| GSJ-JB-2 | 0.35 | 0.42 | 0.000235 | 0.000778 | | 0.000040 | 2.79 | 4.62 | 0.169 | 0.218 | 0.000108 | 1.51 |
| GSJ-JB-3 | 0.65 | 0.78 | 0.00081 | 0.0000721 | | 0.000039 | 3.13 | 5.19 | 0.137 | 0.177 | 0.000109 | 2.03 |
| NIST-688 | | 0.187 | | | | | | (8.4) | 0.167 | | | |
| UG-BCR-2 | 1.49 | 1.79 | 0.0025 | (0.0009) | | (0.000051) | 2.16 | 3.59 | 0.1520 | | 0.0248 | 2.34 |
| UG-BHVO-2 | 0.43 | 0.52 | 0.0015 | (0.0005) | | (0.000028) | 4.36 | 7.23 | 0.1290 | | | 1.64 |
| UG-BIR-1a | | 0.03 | 0.000063 | 0.00036 | | (0.00003) | | 9.70 | | 0.175 | | |
| CGL-USZ46-2008 | | 3.99 | 0.005599 | 0.001108 | | 0.000019 | | 6.33 | | 0.13 | 0.000520 | |
| VS-2116-81 | | 0.98 | 0.00040 | 0.00093 | | | | 6.56 | | 0.164 | 0.00018 | |

| 编号 | Na2O | Nb | Nd | Ni | P | P2O5 | Pb | Pr | Rb | Re | S | SO3 |
|----------------|------|------------|----------|---------|--------|-------|----------|------------|----------|-------------|----------|--------|
| CGL 014 | 3.63 | 0.005650 | 0.003633 | 0.0163 | | 0.70 | 0.000566 | (0.000819) | 0.002860 | | | (0.10) |
| NIM-GBW07105 | 3.38 | 0.0068 | 0.0054 | 0.0140 | 0.4130 | | (0.0007) | 0.00132 | 0.0037 | | (0.0100) | |
| Z BM | 4.65 | | 0.0015 | 0.0057 | | 0.106 | 0.0013 | (0.00030) | 0.0010 | | | |
| GSJ-JB-1B | 2.63 | | | 0.0148 | | 0.256 | 0.00068 | | 0.00391 | | 0.0010 | |
| GSJ-JB-2 | 2.04 | (0.000158) | 0.000663 | 0.00166 | 0.044 | 0.101 | 0.000536 | 0.000101 | 0.000737 | 0.000000038 | 0.00179 | |
| GSJ-JB-3 | 2.73 | 0.000247 | 0.00156 | 0.00362 | 0.128 | 0.294 | 0.000558 | 0.000311 | 0.00151 | 0.000000024 | 0.000986 | |
| NIST-688 | 2.15 | | | | | 0.134 | | | 0.000191 | | | |
| UG-BCR-2 | 3.16 | | 0.0028 | | 0.15 | 0.35 | (0.0011) | (0.00068) | | 0.0048 | | |
| UG-BHVO-2 | 2.22 | (0.0018) | 0.00250 | 0.0119 | 0.12 | 0.27 | | | 0.00098 | | | |
| UG-BIR-1a | 1.82 | (0.00006) | 0.00025 | 0.0170 | | 0.021 | (0.0003) | | | | | |
| CGL-USZ46-2008 | 4.40 | 0.005221 | 0.004662 | 0.0162 | | 0.85 | 0.000870 | 0.001190 | 0.006305 | | | |
| VS-2116-81 | 3.74 | | | 0.0086 | | 0.40 | 0.0012 | | 0.0014 | | (0.0090) | |

| 编号 | Sb | Sc | Se | Si | SiO2 | Sm | Sn | Sr | Ta | Tb | Te | Th |
|----------------|------------|----------|-------------|-------|-------|------------|-----------|---------|------------|------------|-------------|------------|
| CGL-USZ53-2010 | | 0.001933 | | | 48.34 | (0.000774) | | 0.0741 | (0.000324) | (0.000102) | | (0.000476) |
| NIM-GBW07105 | (0.000008) | 0.00152 | 0.0000073 | | 44.64 | 0.00102 | 0.00020 | 0.1100 | 0.00043 | 0.00012 | (0.0000022) | 0.00060 |
| Z BM | 0.00023 | 0.0034 | | | 49.51 | 0.00036 | | 0.0220 | (0.00003) | 0.00009 | | (0.0003) |
| GSJ-JB-1B | 0.00002 | | | | 51.11 | | | 0.0439 | | | | |
| GSJ-JB-2 | 0.000025 | 0.00535 | (0.000019) | 24.89 | 53.25 | 0.000231 | 0.000095 | 0.0178 | 0.000013 | 0.000060 | | 0.000035 |
| GSJ-JB-3 | 0.000012 | 0.00338 | (0.0000069) | 23.82 | 50.96 | 0.000427 | 0.000094 | 0.0403 | 0.000015 | 0.000073 | | 0.000127 |
| NIST-688 | | | | | 48.4 | | | 0.01692 | | | | |
| UG-BCR-2 | | 0.0033 | | 25.3 | 54.1 | (0.00067) | | 0.0346 | | (0.000107) | | 0.00062 |
| UG-BHVO-2 | | 0.0032 | | 23.3 | 49.9 | (0.00062) | (0.00019) | 0.0389 | (0.00014) | (0.00009) | | (0.00012) |
| UG-BIR-1a | (0.000058) | 0.0044 | | | 47.96 | (0.00011) | | 0.0110 | | | | |
| CGL-USZ46-2008 | 0.000028 | 0.001010 | | | 51.85 | 0.000872 | 0.000266 | 0.0927 | 0.000320 | 0.000095 | | 0.000695 |
| VS-2116-81 | | 0.0022 | | | 49.15 | | 0.00070 | 0.0500 | | | | |

| 编号 | Ti | TiO2 | Tl | Tm | U | V | W | Y | Yb | Zn | Zr |
|----------------|--------|------|------------|------------|------------|--------|------------|----------|------------|--------|--------|
| CGL-USZ53-2010 | | 2.68 | | (0.000027) | (0.000093) | 0.0197 | (0.000341) | 0.002360 | (0.000169) | 0.0133 | 0.0201 |
| NIM-GBW07105 | 1.4200 | | (0.000012) | 0.000028 | 0.00014 | 0.0167 | (0.00004) | 0.0022 | 0.00015 | 0.0150 | 0.0277 |
| Z BM | | 1.14 | | | (0.00011) | 0.0190 | 0.00009 | 0.0027 | 0.00030 | 0.0120 | 0.0100 |
| GSJ-JB-1B | | 1.26 | | | | 0.0214 | | | | 0.0080 | |

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|----------------|------|------|------------|------------|----------|--------|------------|----------|----------|--------|---------|
| GSJ-JB-2 | 0.71 | 1.19 | (0.000042) | 0.000041 | 0.000018 | 0.0575 | (0.000026) | 0.00249 | 0.000262 | 0.0108 | 0.00512 |
| GSJ-JB-3 | 0.86 | 1.44 | 0.0000048 | 0.000042 | 0.000048 | 0.0372 | (0.000106) | 0.00269 | 0.000255 | 0.0100 | 0.00978 |
| NIST-688 | | 1.17 | | | | | | | | | |
| UG-BCR-2 | 1.35 | 2.26 | | (0.000054) | 0.000169 | 0.0416 | | 0.0037 | 0.00035 | 0.0127 | 0.0188 |
| UG-BHVO-2 | 1.63 | 2.73 | | | | 0.0317 | | 0.0026 | (0.0020) | 0.0103 | 0.0172 |
| UG-BIR-1a | | 0.96 | | | | 0.0310 | | 0.0016 | 0.00017 | 0.0070 | 0.0018 |
| CGL-USZ46-2008 | | 2.11 | 0.000012 | 0.000023 | 0.000164 | 0.0105 | 0.000115 | 0.002048 | 0.000134 | 0.0114 | 0.0287 |
| VS-2116-81 | | 1.65 | | | | 0.0150 | | 0.0029 | 0.00026 | 0.0082 | 0.0190 |

Calcium aluminate 铝酸钙

| 编号 | 描述 | 种类 | Al2O3 | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | MoO3 | S | SiO2 | SrO | TiO2 | V2O5 | 规格 |
|------------|-------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|
| DH-SX01-01 | Calcium Aluminate | RM | 72.2 | 26.74 | 0.006 | 0.118 | | 0.191 | 0.008 | | 0.011 | 0.17 | | | <0.005 | 100g |
| DH-SX01-02 | Calcium Aluminate | RM | 64.30 | 18.34 | 0.054 | 0.708 | | 12.54 | 0.114 | | 0.020 | 2.02 | 0.024 | 0.165 | 1.48 | 100g |
| DH-SX01-03 | Calcium Aluminate | RM | 68.8 | 23.38 | 0.028 | 0.289 | 0.296 | 3.53 | 0.024 | 0.014 | | 0.450 | 0.009 | 0.067 | 2.36 | 100g |

Calcium carbonate 碳酸钙

| 编号 | 描述 | 种类 | Al | B | Ba | BaO | CO2 | CO3 | Ca | CaCO3 | CaO | Cd | Cl | Co | Cr | 规格 |
|-----------|-------------------|-----|-----------|-----------|---------|----------|-------|--------|---------|--------|-------|------------|----------|-----------|---------|------|
| BAM-RS 3 | Calcium Carbonate | CRM | (<0.0005) | (<0.0001) | 0.00453 | | | | | 99.79 | | (<0.00005) | | (<0.0001) | <0.0001 | 100g |
| DH-P01-01 | Calcium Carbonate | RM | | | | | 43.95 | | | | 55.96 | | | | | 100g |
| NIST-915B | Calcium Carbonate | CRM | | | | (0.0002) | | 59.923 | 40.0104 | 99.907 | | | (0.0008) | | | 20g |

| 编号 | Cu | CuO | Fe | Fe2O3 | Ga | K | La | Mg | MgO | Mn | Na | Na2O | Ni |
|-----------|---------|---------|---------|---------|------------|-----------|------------|----------|---------|---------|----------|---------|-----------|
| BAM-RS 3 | <0.0001 | | <0.0005 | | (<0.00015) | (<0.0020) | (<0.00005) | 0.0183 | | 0.00030 | 0.00475 | | (<0.0003) |
| DH-P01-01 | | 0.00012 | | 0.00056 | | | | | 0.01657 | | | 0.00780 | |
| NIST-915B | | | | | | | | (0.0040) | | | (0.0017) | | |

| 编号 | P | Pb | S | SO3 | Si | SiO2 | Sn | Sr | SrO | Ti | Zn | Zr |
|-----------|----------|------------|----------|---------|-----------|----------|-----------|----------|---------|------------|---------|------------|
| BAM-RS 3 | | (<0.00001) | | | (<0.0020) | | (<0.0001) | 0.0173 | | (<0.00005) | <0.0002 | (<0.00002) |
| DH-P01-01 | | | | (0.010) | | (0.0020) | | | 0.01640 | | | |
| NIST-915B | (0.0003) | | (0.0030) | | (0.0005) | | | (0.0150) | | | | |

Carbonatite 碳酸岩

| 编号 | 描述 | 种类 | Al2O3 | Ba | Be | CaO | Ce | Co | Cr | Cs | Cu | Dy | Er | Eu | FeO | 规格 |
|----------|-------------|-----|-------|--------|---------|------|--------|---------|---------|---------|---------|--------|--------|--------|-----|-----|
| UG-COQ-1 | Carbonatite | CRM | 0.37 | 0.1000 | 0.00012 | 48.3 | 0.1700 | <0.0005 | <0.0010 | 0.00002 | <0.0010 | 0.0018 | 0.0007 | 0.0015 | | 25g |

| 编号 | Fe2O3 | Fe (tot)* | Ga | Gd | Ho | K2O | La | MgO | MnO | Mo | Na2O | Nb | Nd |
|----------|-------|-----------|--------|--------|--------|------|--------|------|------|----|------|--------|--------|
| UG-COQ-1 | | 2.94 | 0.0006 | 0.0050 | 0.0003 | 0.16 | 0.0750 | 1.25 | 0.43 | | 0.04 | 0.3900 | 0.0480 |

| 编号 | Ni | P2O5 | Pb | Pr | Rb | Sc | SiO2 | Sm | Sr | Tb | Th | TiO2 | U |
|----------|--------|------|----|--------|----|--------|------|--------|--------|--------|--------|------|--------|
| UG-COQ-1 | 0.0013 | 2.6 | | 0.0150 | | 0.0003 | 3.47 | 0.0056 | 1.2000 | 0.0004 | 0.0010 | 0.15 | 0.0011 |

| 编号 | V | Y | Yb | Zn | Zr |
|----------|--------|--------|--------|--------|--------|
| UG-COQ-1 | 0.0110 | 0.0081 | 0.0006 | 0.0087 | 0.0065 |

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Chert燧石, 黑硅石

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | Au | Ba | Be | C | CO2 | CaO | Cd | Ce | Cl | Co | 规格 |
|-----------|-------|-----|--------------|-------------|--------------|-------------|-------------|-------------|------------|-----------|---------|-------------|------------|-------------|--------------|-----|
| GSJ-JCH-1 | Chert | CRM | (0.00000041) | 0.734 | 0.0000567 | 0.000000017 | 0.0302 | (0.0000373) | (0.0037) | (0.055) | 0.0449 | (0.0000006) | 0.000521 | (0.0014) | 0.00155 | 20g |
| 编号 | 描述 | 种类 | Cr | Cs | Cu | Dy | Er | Eu | F | FeO | Fe2O3 | Fe (tot)* | Gd | H2O- | H2O+ | 规格 |
| GSJ-JCH-1 | | | 0.000704 | 0.0000243 | 0.00153 | (0.0000378) | (0.0000233) | 0.00000594 | (0.0134) | 0.0867 | 0.272 | 0.356 | (0.00017) | 0.152 | 0.356 | |
| 编号 | 描述 | 种类 | Hf | Hg | Ho | K2O | La | Li | Lu | MgO | MnO | Na2O | Nb | Nd | Ni | 规格 |
| GSJ-JCH-1 | | | 0.0000195 | 0.000000413 | (0.0000112) | 0.221 | 0.000152 | (0.000648) | 0.00000344 | 0.0754 | 0.0173 | 0.0305 | (0.000170) | 0.000205 | 0.000876 | |
| 编号 | 描述 | 种类 | P2O5 | Pb | Pd | Pr | Pt | Rb | S | Sc | SiO2 | Sm | Sr | Ta | Tb | 规格 |
| GSJ-JCH-1 | | | 0.0167 | 0.000200 | (0.00000004) | (0.000425) | (<0.5 ppb) | 0.000861 | (0.0004) | 0.0000979 | 97.81 | 0.0000359 | 0.000420 | (0.0000182) | (0.00000385) | |
| 编号 | 描述 | 种类 | Th | TiO2 | U | V | W | Y | Yb | Zn | Zr | | | | | 规格 |
| GSJ-JCH-1 | | | 0.0000735 | 0.0316 | 0.0000736 | 0.00104 | (0.00923) | 0.000181 | 0.0000182 | 0.000793 | 0.00115 | | | | | |

Cover powder

| 编号 | 描述 | 种类 | Al2O3 | BaO | CaO | CO2 | F | Fe2O3 | C) | K2O | MgO | Mn3O4 | Na2O | P2O5 | S | 规格 |
|------------|--------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| DH-SX59-03 | Cover Powder | RM | 3.70 | | 61.81 | 0.016 | 0.046 | 1.36 | 0.023 | 0.599 | 10.07 | 0.046 | 0.174 | 0.151 | 0.194 | 100g |
| DH-SX59-04 | Cover Powder | RM | 12.37 | 0.180 | 39.47 | | | 0.591 | | 0.622 | 14.53 | 0.076 | | 0.019 | 0.074 | 100g |
| DH-SX59-05 | Cover Powder | RM | 19.32 | | 46.50 | | | 0.435 | | 0.321 | 9.17 | 0.051 | | 0.039 | 0.074 | 100g |
| DH-SX59-06 | Cover Powder | RM | 14.34 | | 33.29 | | | 0.598 | | 0.210 | 19.38 | 0.052 | 0.32 | 0.037 | 0.061 | 100g |
| 编号 | 描述 | 种类 | SiO2 | SrO | TiO2 | | | | | | | | | | | 规格 |
| DH-SX59-03 | | | 21.33 | | 0.183 | | | | | | | | | | | |
| DH-SX59-04 | | | 30.86 | 0.025 | 0.038 | | | | | | | | | | | |
| DH-SX59-05 | | | 22.93 | | 0.035 | | | | | | | | | | | |
| DH-SX59-06 | | | 30.78 | 0.015 | 0.037 | | | | | | | | | | | |

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Diabase辉绿岩

| 编号 | 描述 | 种类 | Ag | Al ₂ O ₃ | As | B | Ba | Be | Bi | CO ₂ | CaO | Cd | Ce | Cl | Co | 规格 |
|-------------|---------|-----|-------------------|--------------------------------|-----------|------------|-------------------------------|------------|----------|------------------|--------------------------------|-----------------|------------|----------|------------|-----|
| NCS DC71311 | Diabase | CRM | 0.000033 | 13.21 | 0.00051 | 0.00170 | (0.0614) | 0.00015 | 0.000039 | (0.11) | 7.83 | 0.000039 | 0.00781 | (0.04) | 0.00375 | 70g |
| UG-W-2A | Diabase | CRM | | 15.45 | (0.00012) | (0.0012) | 0.0170 | (0.00013) | | | 10.86 | | 0.0023 | (0.0190) | 0.0043 | 30g |
| 编号 | | | Cr | Cs | Cu | Dy | Er | Eu | F | FeO | Fe ₂ O ₃ | Fe (tot)* | Ga | Gd | Ge | |
| NCS DC71311 | | | 0.0111 | 0.00017 | 0.00826 | 0.00055 | (0.00026) | 0.00035 | (0.07) | 7.24 | | (13.40) | 0.00212 | 0.00072 | 0.00015 | |
| UG-W-2A | | | 0.0092 | (0.000099) | 0.0110 | 0.00036 | (0.00025) | (0.00010) | (0.0205) | 8.34 | 1.53 | 10.83 | 0.0017 | | | |
| 编号 | | | H ₂ O+ | Hf | Hg | Ho | K ₂ O | La | Li | LOI | Lu | MgO | Mn | MnO | Mo | |
| NCS DC71311 | | | (2.44) | 0.00092 | 0.0000017 | 0.00012 | 1.49 | 0.00381 | 0.00208 | 2.30 | 0.000034 | 5.08 | (0.16) | | 0.00014 | |
| UG-W-2A | | | | 0.00026 | | (0.000076) | 0.626 | 0.0010 | 0.00096 | | (0.000033) | 6.37 | | 0.167 | | |
| 编号 | | | Na ₂ O | Nb | Nd | Ni | P ₂ O ₅ | Pb | Pr | Rb | S | SO ₃ | Sb | Sc | Se | |
| NCS DC71311 | | | 3.17 | 0.00253 | 0.00428 | 0.00568 | 0.55 | 0.00330 | 0.00106 | 0.00474 | | 0.44 | 0.00023 | 0.00271 | (0.000019) | |
| UG-W-2A | | | 2.20 | (0.00079) | 0.0013 | 0.0070 | 0.14 | (0.00093) | | 0.0021 | (0.0079 tot) | | (0.000079) | 0.0036 | | |
| 编号 | | | SiO ₂ | Sm | Sn | Sr | Ta | Tb | Th | TiO ₂ | Tm | U | V | W | Y | |
| NCS DC71311 | | | 49.88 | 0.00086 | 0.00020 | 0.0470 | 0.00018 | 0.00011 | 0.00049 | 2.94 | 0.000036 | 0.00012 | 0.0268 | 0.00014 | 0.00245 | |
| UG-W-2A | | | 52.68 | 0.00033 | | 0.0190 | (0.00005) | (0.000063) | 0.00024 | 1.06 | (0.000038) | (0.000053) | 0.0260 | | 0.0023 | |
| 编号 | | | Yb | Zn | Zr | | | | | | | | | | | |
| NCS DC71311 | | | 0.00022 | (0.0160) | 0.0359 | | | | | | | | | | | |
| UG-W-2A | | | 0.00021 | 0.0080 | 0.0100 | | | | | | | | | | | |

Diatomaceous earth硅藻土

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| 编号 | 描述 | 种类 | Al ₂ O ₃ | CaO | Fe ₂ O ₃ | K ₂ O | MgO | Na ₂ O | P ₂ O ₅ | SiO ₂ | TiO ₂ | 规格 |
|-------|--------------------|-----|--------------------------------|-------|--------------------------------|------------------|-------|-------------------|-------------------------------|------------------|------------------|------|
| UN KB | Diatomaceous earth | CRM | 14.47 | 0.158 | 1.68 | 0.67 | 0.251 | 0.074 | 0.09 | 74.21 | 0.557 | 100g |

Diorite闪长岩

| 编号 | 描述 | 种类 | Al ₂ O ₃ | As | B | Ba | Be | CO ₂ | CaO | Ce | Cl | Co | Cr | Cs | Cu | 规格 |
|----------------|----------------|-----|--------------------------------|------------|--------|--------|---------|-----------------|------|---------|---------|---------|--------|------------|--------|------|
| CGL-USZ50-2009 | Diorite | CRM | 15.97 | (0.000997) | | 0.0425 | | | 6.99 | 0.00508 | | 0.00849 | 0.0100 | (0.000524) | 0.0100 | 100g |
| VS-6103-91 | Quartz diorite | CRM | 16.56 | | 0.0046 | 0.072 | 0.00024 | (0.18) | 4.84 | 0.0046 | (0.011) | 0.0017 | 0.0058 | 0.00029 | 0.0039 | 100g |

| 编号 | Dy | Er | Eu | F | FeO | Fe (tot)* | Ga | Gd | H ₂ O- | H ₂ O+ | Hf | Ho | K ₂ O |
|----------------|------------|------------|------------|--------|------|-----------|----------|------------|-------------------|-------------------|------------|------------|------------------|
| CGL-USZ50-2009 | (0.000429) | (0.000229) | (0.000141) | (0.19) | 4.82 | 8.10 | 0.001958 | (0.000521) | (0.11) | 0.35 | (0.000369) | (0.000085) | 1.55 |
| VS-6103-91 | | | 0.00013 | 0.071 | 3.79 | 5.55 | 0.0018 | | (0.14) | (1.6) | | | 2.98 |

| 编号 | La | Li | LOI | Lu | MgO | MnO | Mo | Na ₂ O | Nb | Nd | Ni | P ₂ O ₅ | Pb |
|----------------|----------|-----------|------|------------|------|-------|------------|-------------------|----------|----------|----------|-------------------------------|----------|
| CGL-USZ50-2009 | 0.002440 | (0.00139) | 0.51 | (0.000030) | 3.81 | 0.12 | (0.000081) | 3.33 | 0.000692 | 0.003048 | 0.004094 | (0.39) | 0.000897 |
| VS-6103-91 | 0.0027 | 0.0030 | 1.59 | 0.000030 | 3.05 | 0.086 | | 3.57 | 0.0012 | 0.0024 | 0.0033 | 0.17 | 0.0024 |

| 编号 | Pd | Pr | Rb | S | Sc | SiO ₂ | Sm | Sn | Sr | Ta | Tb | Th | TiO ₂ |
|----------------|----|------------|---------|-------------|----------|------------------|------------|---------|--------|------------|------------|----------|------------------|
| CGL-USZ50-2009 | | (0.000645) | 0.00485 | | 0.002046 | 57.75 | (0.000561) | | 0.0454 | (0.000048) | (0.000076) | 0.000388 | 1.34 |
| VS-6103-91 | | | 0.0083 | (0.013 tot) | 0.0015 | 60.45 | 0.00048 | 0.00043 | 0.041 | | | 0.00068 | 0.86 |

| 编号 | Tm | U | V | W | Y | Yb | Zn | Zr |
|----------------|------------|------------|--------|--------|----------|----------|----------|--------|
| CGL-USZ50-2009 | (0.000032) | (0.000109) | 0.0213 | 0.0266 | 0.002362 | 0.000205 | 0.009277 | 0.0191 |
| VS-6103-91 | | | 0.0096 | | 0.0021 | 0.00021 | 0.0071 | 0.0173 |

Diorite gneiss闪长片麻岩

| 编号 | 描述 | 种类 | Ag | Al | Al ₂ O ₃ | Ba | Be | Br | C | CO ₂ | Ca | CaO | Ce | Co | Cr | 规格 |
|----------|----------------|-----|-----------|------|--------------------------------|--------|---------|----------|-------|-----------------|-------|------|--------|---------|--------|------|
| CAN SY-4 | Diorite gneiss | CRM | (0.00006) | (11) | 20.69 | 0.0340 | 0.00026 | (0.0217) | (1.0) | 3.5 | (5.8) | 8.05 | 0.0122 | 0.00028 | 0.0012 | 100g |

| 编号 | Cs | Cu | Dy | Er | Eu | F | Fe | FeO | Fe ₂ O ₃ | Ga | Gd | H ₂ O | Hf |
|----------|---------|--------|---------|---------|----------|--------|-----|------|--------------------------------|--------|---------|------------------|---------|
| CAN SY-4 | 0.00015 | 0.0007 | 0.00182 | 0.00142 | 0.000200 | (0.06) | 4.2 | 2.86 | 6.21 | 0.0035 | 0.00140 | (1.15) | 0.00106 |

| 编号 | Ho | K | K ₂ O | La | Li | LOI | Lu | Mg | MgO | Mn | MnO | Na | Na ₂ O |
|----------|---------|--------|------------------|--------|--------|------|---------|--------|------|--------|-------|-------|-------------------|
| CAN SY-4 | 0.00043 | (1.41) | 1.66 | 0.0058 | 0.0037 | 4.56 | 0.00021 | (0.30) | 0.54 | 0.0819 | 0.108 | (5.3) | 7.10 |

| 编号 | Nb | Nd | Ni | P | P ₂ O ₅ | Pb | Pr | Rb | S (tot) | Sc | SiO ₂ | Sm | Sn |
|----------|--------|--------|--------|----------|-------------------------------|--------|---------|--------|---------|---------|------------------|---------|-----------|
| CAN SY-4 | 0.0013 | 0.0057 | 0.0009 | (0.0532) | 0.131 | 0.0010 | 0.00150 | 0.0055 | (0.015) | 0.00011 | 49.9 | 0.00127 | (0.00071) |

| 编号 | Sr | Ta | Tb | Th | TiO ₂ | Tm | U | V | Y | Yb | Zn | Zr |
|----------|--------|---------|---------|---------|------------------|---------|---------|--------|--------|---------|--------|--------|
| CAN SY-4 | 0.1191 | 0.00009 | 0.00026 | 0.00014 | 0.287 | 0.00023 | 0.00008 | 0.0008 | 0.0119 | 0.00148 | 0.0093 | 0.0517 |

Dolerite粗玄岩

| 描述 | 描述 | 种类 | Ag | Al ₂ O ₃ | As | Au | B | Ba | Be | CaO | Ce | Cl | Co | Cr | Cs | 规格 |
|-----------|----------|-----|----|--------------------------------|------------|----|---|-----------|--------|----------|----------|----------|--------|--------|----|------|
| SARM 50 | Dolerite | CRM | | 15.28 | | | | 0.0220 | | 10.80 | (0.0030) | | 0.0040 | 0.0357 | | 100g |
| UG-DNC-1A | Dolerite | CRM | | 18.34 | (0.000012) | | | (0.00009) | 0.0118 | (0.0001) | 11.49 | (0.0060) | 0.0057 | 0.0270 | | 30g |

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| VS-8671-2005 | Dolerite | CRM | (0.000005) | 14.63 | (0.00000026) | (0.00038) | 0.0227 | 0.00008 | 10.42 | 0.0022 | 0.0052 | 0.0213 | (0.000045) | 100g |
|--------------|------------|-----------|------------|-----------|--------------|-----------|----------|-----------|----------|-----------|----------|----------|------------|------|
| 描述 | Cu | Dy | Er | Eu | F | FeO | Fe2O3 | Fe (tot)* | Ga | Gd | Ge | H2O+ | Hf | |
| SARM 50 | 0.0084 | | | | | 8.49 | 11.0 | | | | | | | |
| UG-DNC-1A | 0.0100 | (0.0003) | | 0.000059 | (0.0066) | 7.32 | 1.79 | 9.97 | (0.0015) | (0.0002) | | | | |
| VS-8671-2005 | 0.0180 | 0.00051 | 0.00029 | 0.00014 | (0.021) | 10.33 | | 14.62 | 0.0017 | 0.00045 | 0.00015 | (0.88) | 0.00027 | |
| 描述 | Ho | K2O | La | Li | LOI | Lu | MgO | MnO | Mo | Na2O | Nb | Nd | Ni | |
| SARM 50 | | 0.61 | | | | | 7.57 | 0.17 | | 2.30 | (0.0010) | | (0.0085) | |
| UG-DNC-1A | (0.000062) | 0.234 | 0.00036 | 0.00052 | | (0.0033) | 10.13 | 0.15 | | 1.89 | (0.0003) | 0.00052 | 0.0247 | |
| VS-8671-2005 | (0.0001) | 0.46 | 0.0008 | 0.00086 | (0.42) | 0.000044 | 7.51 | 0.21 | 0.000098 | 2.32 | 0.0006 | 0.00132 | 0.0126 | |
| 描述 | P2O5 | Pb | Pr | Rb | S | Sb | Sc | SiO2 | Sm | Sn | Sr | Ta | Tb | |
| SARM 50 | 0.15 | 0.0025 | | 0.0014 | | | | 51.56 | | | | 0.0195 | | |
| UG-DNC-1A | 0.07 | (0.00063) | (0.00012) | (0.00045) | | | 0.000096 | 0.0031 | 47.15 | (0.00015) | | 0.0144 | (0.00004) | |
| VS-8671-2005 | 0.17 | (0.0003) | 0.00026 | 0.0011 | (0.026) | | 0.0041 | 47.99 | 0.0004 | 0.000264 | 0.0197 | 0.000035 | 0.00008 | |
| 描述 | Th | TiO2 | Tm | U | V | W | Y | Yb | Zn | Zr | | | | |
| SARM 50 | (0.0006) | 0.86 | | | 0.0216 | | 0.0023 | | 0.0081 | 0.0086 | | | | |
| UG-DNC-1A | | 0.48 | (0.00003) | | 0.0148 | | 0.0018 | 0.0002 | 0.0070 | 0.0038 | | | | |
| VS-8671-2005 | 0.00010 | 1.59 | 0.000044 | 0.000045 | 0.0315 | (0.00004) | 0.0029 | 0.00033 | 0.0112 | 0.0125 | | | | |

Dolomite白云石

| 编号 | 描述 | 种类 | Al2O3 | As | Ba | CaO | Ce | Co | Cr | Cu | Dy | Er | Eu | Fe (tot)* | Gd | 规格 | |
|---------------|----------|-----|------------|-----------|----------|---------|----------|-----------|----------|----------|----------|----------|----------|-----------|----------|----------|-----|
| UL DWA1 | Dolomite | CRM | (0.05) | (0.00013) | 0.0024 | 30.84 | 0.00022 | (0.00002) | (0.0004) | (0.0004) | 0.000082 | 0.000050 | 0.000016 | 0.27 | 0.000081 | 20 / 50g | |
| 编号 | | | Hf | Ho | K2O | La | LOI | Lu | MgO | MnO | Na2O | Nd | P2O5 | Pb | Pr | | |
| UL DWA1 | | | (0.000003) | 0.000018 | 0.010 | 0.00036 | 47.29 | 0.000005 | 21.40 | (0.06) | 0.042 | 0.0003 | (0.023) | (0.0035) | 0.000067 | | |
| 编号 | | | Sc | SiO2 | Sm | Sr | Tb | Th | TiO2 | Tm | U | V | Y | Yb | Zn | | |
| UL DWA1 | | | 0.000024 | (0.06) | 0.000062 | 0.0049 | 0.000012 | 0.000008 | (0.010) | 0.000006 | 0.00014 | 0.00069 | 0.00094 | 0.000039 | 0.0083 | | |
| 编号 | 描述 | 种类 | Al2O3 | CaO | Fe2O3 | K2O | LOI | MgO | MnO | Mn3O4 | Na2O | P | S | SO3 | SiO2 | TiO2 | 规格 |
| DK 2A | Dolomite | CRM | 0.91 | 29.2 | 1.01 | 0.37 | 44.3 | 19.5 | | 0.06 | 0.04 | | | 0.06 | 4.3 | 0.07 | 60g |
| NIM-GBW07216A | Dolomite | CRM | 0.24 | 35.02 | 0.495 | (0.001) | 46.32 | 17.88 | 0.020 | | 0.013 | 0.0012 | 0.0093 | | 0.049 | | 70g |

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|---------------|----------|-----|-------|-------|-------|--------|-------|-------|-------|--|-------|--------|-------|-------|------|
| NIM-GBW07217A | Dolomite | CRM | 0.017 | 32.11 | 0.224 | 0.0011 | 46.89 | 20.37 | 0.032 | | 0.023 | 0.0010 | 0.018 | 0.021 | 70g |
| NCS DC14020A | Dolomite | CRM | 0.11 | 37.59 | 0.459 | 0.019 | 45.88 | 15.38 | 0.020 | | 0.015 | 0.0012 | 0.046 | 0.25 | 70g |
| NCS DC28207 | Dolomite | CRM | 0.27 | 30.33 | 0.44 | | 46.11 | 20.88 | 0.013 | | | 0.018 | 0.033 | 1.26 | 100g |
| NCS DC28208 | Dolomite | CRM | 0.23 | 30.80 | 0.32 | | 46.20 | 20.79 | 0.019 | | | 0.0013 | 0.022 | 0.99 | 100g |

| 编号 | 描述 | 种类 | Al | Al2O3 | As | B2O3 | BaO | C | CO2 | Ca | CaO | Cd | Cr2O3 | F | Fe | 规格 |
|-----------------|---------------------|-----|------|-------|----------|----------|----------|--------|-------|-------|-------|-----------|----------|--------|-------|------|
| BAS-BCS-CRM 512 | Dolomite | CRM | | 0.055 | (<0.003) | | (<0.02) | (12.4) | | | 30.61 | (<0.0003) | (<0.001) | (0.01) | | 100g |
| DH-SX09-11 | Dolomite | RM | | 0.471 | | | | | 43.78 | | 41.98 | | | | | 100g |
| ECRM-B 782-1 | Dolomite | CRM | | 0.104 | | (0.0039) | (0.0008) | | | | 30.34 | | 0.0009 | | | 100g |
| ECRM-F 702-1 | Dolomite | CRM | 0.21 | | | | | | | 21.48 | | | | | 0.440 | 100g |
| DH-SX07-07 | Dolomite substitute | RM | | 17.12 | | | | | | | 16.07 | | 0.207 | | | 100g |
| NIST-88B | Dolomite | CRM | | 0.336 | | | | | 46.37 | | 29.95 | | | | | 75g |
| VS-K4/4 | Dolomite | CRM | | 0.47 | | | | 20.1 | | | 31.2 | | | | | |

| 编号 | Fe2O3 | C) | Ins.res. | K2O | LOI | Mg | MgO | Mn | MnO | Mn3O4 | Na2O | Ni | NiO |
|-----------------|-------|-------|----------|--------|---------|-------|-------|--------|--------|-------|--------|----------|-------|
| BAS-BCS-CRM 512 | 0.030 | | | (<0.2) | 46.80 | | 21.59 | | 0.0036 | | (0.1) | (<0.001) | |
| DH-SX09-11 | 0.462 | 0.411 | | 0.194 | | | 10.31 | | 0.032 | | 0.025 | | |
| ECRM-B 782-1 | 0.450 | | | 0.0260 | 47.25 | | 21.29 | | 0.081 | | | (0.0004) | |
| ECRM-F 702-1 | | | | | | 12.37 | | 0.098 | | | | | |
| DH-SX07-07 | 12.25 | | | 0.157 | | | 39.06 | | | 0.858 | | | 0.021 |
| NIST-88B | 0.277 | | | 0.1030 | (46.98) | | 21.03 | 0.0160 | | | 0.0290 | | |
| VS-K4/4 | 0.56 | | 1.30 | | | | | 0.034 | | | | | |

| 编号 | P | P2O5 | PbO | S | SO3 | Si | SiO2 | SrO | Ti | TiO2 | ZnO |
|-----------------|-------|---------|----------|---------|-------|------|-------|--------|--------|---------|---------|
| BAS-BCS-CRM 512 | | (<0.02) | (<0.001) | (<0.05) | | | 0.379 | 0.024 | 0.0025 | | (<0.01) |
| DH-SX09-11 | | 0.037 | | | 0.064 | | 2.11 | | | 0.036 | |
| ECRM-B 782-1 | | 0.0128 | 0.0029 | (0.016) | | | 0.266 | | 0.0025 | | 0.0082 |
| ECRM-F 702-1 | 0.024 | | | 0.027 | | 1.04 | 0.96 | | 0.013 | | |
| DH-SX07-07 | | 0.199 | | 0.151 | | | 13.51 | | | 0.423 | |
| NIST-88B | | 0.0044 | | | | | 1.13 | 0.0076 | | (0.016) | |
| VS-K4/4 | | | | | | | | | | | |

Dunite 橄欖岩

| 编号 | 描述 | 种类 | Al | Al2O3 | Ba | C | CO2 | Ca | CaO | Co | Cr | Cr2O3 | Cu | Fe (tot) | FeO | 规格 |
|------------|--------|-----|------|-------|----------|-------------|--------|------|------|--------|--------|-------|----------|----------|--------|------|
| DH-SX10-02 | Dunite | RM | | 8.87 | | 0.332 (tot) | 0.767 | | 4.36 | | | 0.037 | | 5.40 | 0.623 | 100g |
| SARM 6 | Dunite | CRM | | (0.3) | | | | | 0.28 | | | 0.42 | | | 14.63 | 100g |
| UG-DTS-2B | Dunite | CRM | 0.24 | 0.45 | (0.0016) | | | 0.09 | 0.12 | 0.0120 | 1.5500 | | (0.0003) | 5.43 | (4.27) | 30g |
| VS-2112-81 | Dunite | CRM | | | | | 0.46 | | | 0.0129 | | | | 0.0027 | | 40g |
| VS-4233-88 | Dunite | CRM | | 0.97 | | | (1.61) | | 1.52 | 0.012 | 0.41 | | 0.0033 | | (5.54) | 100g |

| 编号 | Fe2O3 | Fe (tot)* | Ge | H2O | H2O- | H2O+ | H2O loss | K2O | Li | LOI | Mg | MgO | Mn |
|------------|-------|-----------|-----------|-----|------|------|----------|--------|----|-----|------|-------|--------|
| DH-SX10-02 | | | | | | | 5.95 | 4.80 | | | | 23.79 | |
| SARM 6 | 0.71 | | | | | | | (0.01) | | | | 43.51 | |
| UG-DTS-2B | | 7.76 | (0.00007) | | | | | | | | 29.8 | 49.4 | 0.0830 |

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|------------|------------|--------------|-----------|-----------|-------------|-----------|------------|-------------|-----------|-----------|----------|-----------|-----------|
| VS-2112-81 | 10.06 | | 11.35 | | | | | | | | | | 42.40 |
| VS-4233-88 | 8.91 | 0.00011 | | (0.4) | (4.82) | 0.010 | 0.00020 | 6.31 | | | | | 41.86 |
| 编号 | MnO | Mn3O4 | Mo | Na | Na2O | Ni | NiO | P2O5 | Pb | Rb | S | Sb | Sc |
| DH-SX10-02 | | 0.061 | | | 0.068 | | 0.022 | 0.922 | | | | | |
| SARM 6 | 0.22 | | | | (0.04) | | | | | | | | |
| UG-DTS-2B | | | | (0.02) | | 0.3780 | | | (0.0004) | (0.0002) | | (0.00006) | (0.0003) |
| VS-2112-81 | 0.176 | | 0.00014 | | | 0.133 | | | | | | | |
| VS-4233-88 | 0.13 | | | | 0.035 | 0.22 | | (0.01) | | | (0.041) | | 0.0009 |
| 编号 | Si | SiO2 | Sn | Sr | TiO2 | V | Zn | | | | | | |
| DH-SX10-02 | | 41.87 | | | 0.929 | | | | | | | | |
| SARM 6 | | 38.96 | | | (0.02) | | | | | | | | |
| UG-DTS-2B | 18.4 | 39.4 | | | | 0.0022 | 0.0045 | | | | | | |
| VS-2112-81 | | 35.07 | 0.00022 | | | 0.00069 | 0.0082 | | | | | | |
| VS-4233-88 | | 39.58 | | 0.0018 | 0.018 | 0.0033 | 0.0030 | | | | | | |

Earthenware 陶器

| 编号 | 描述 | 种类 | Al2O3 | BaO | CaO | Fe2O3 | K2O | LOI | MgO | Na2O | P2O5 | SiO2 | SrO | TiO2 | 规格 |
|------------|-------------|----|-------|------|------|-------|------|------|------|------|------|------|------|------|------------|
| CERAM-CEB1 | Earthenware | RM | 16.2 | 0.05 | 0.52 | 0.48 | 1.75 | 5.60 | 0.16 | 0.71 | 0.14 | 74.0 | 0.02 | 0.34 | 25g / 100g |

Feldspar 长石

| 编号 | 描述 | 种类 | Ag | Al | Al2O3 | As | Au (ppm) | B | Ba | Be | C | Ca | CaO | Cd | Ce | 规格 |
|----------|----------|-----|------------|------|-------|------------|-----------|-----------|--------|------------|-----------|------|------|-------------|----------|------------|
| GSJ-JF-1 | Feldspar | CRM | (0.000017) | 9.57 | 18.08 | (0.000092) | (0.00011) | (0.00018) | 0.1750 | (0.00013) | (<0.0020) | 0.66 | 0.93 | (0.0000003) | 0.000419 | 100g |
| GSJ-JF-2 | Feldspar | CRM | (0.000019) | 9.80 | 18.52 | (0.000028) | (0.00012) | (0.00016) | 0.0298 | (0.000077) | (0.0038) | 0.06 | 0.09 | (0.0000003) | 0.000084 | 20g / 100g |

| 编号 | Co | Cr | Cs | Cu | Dy | Er | Eu | F | Fe | FeO | Fe2O3 | Fe (tot)* | Ga |
|----|----|----|----|----|----|----|----|---|----|-----|-------|-----------|----|
|----|----|----|----|----|----|----|----|---|----|-----|-------|-----------|----|

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|----------|----------|------------|----------|----------|-------------|-------------|----------|----------|------|---------|------|------|---------|
| GSJ-JF-1 | 0.00012 | 0.000548 | 0.000209 | 0.000082 | 0.000039 | 0.000031 | 0.000087 | (0.0078) | 0.06 | (<0.04) | 0.06 | 0.08 | 0.00174 |
| GSJ-JF-2 | 0.000068 | (0.000247) | 0.000106 | 0.000078 | (0.0000036) | (0.0000034) | 0.000059 | (0.0016) | 0.04 | (<0.03) | 0.06 | 0.06 | 0.00179 |

| 编号 | Gd | H2O- | H2O+ | Hf | Hg (ppm) | Ho | K | K2O | La | Li | Lu | Mg | MgO |
|----------|-------------|------|------|----------|----------|-------------|-------|-------|----------|----------|-----------|-------|---------|
| GSJ-JF-1 | 0.000093 | 0.13 | 0.23 | 0.000118 | (0.0016) | 0.000011 | 8.29 | 9.99 | 0.000280 | 0.000981 | 0.0000053 | 0.004 | 0.006 |
| GSJ-JF-2 | (0.0000072) | 0.18 | 0.24 | 0.000019 | (0.0017) | (0.0000021) | 10.74 | 12.94 | 0.000063 | 0.000219 | 0.0000020 | | (0.004) |

| 编号 | Mn | MnO | Mo | Na | Na2O | Nb | Nd | Ni | P | P2O5 | Pb | Pd | Pr |
|----------|-------|-------|------------|------|------|----------|------------|------------|-------|---------|---------|------------|------------|
| GSJ-JF-1 | 0.001 | 0.001 | (0.000030) | 2.50 | 3.37 | 0.000074 | 0.000146 | (0.000136) | 0.004 | 0.01 | 0.00334 | <0.0000002 | 0.000048 |
| GSJ-JF-2 | 0.001 | 0.001 | (0.000021) | 1.77 | 2.39 | 0.000070 | (0.000033) | (0.000138) | | (0.003) | 0.00487 | <0.0000002 | (0.000088) |

| 编号 | Pt (ppm) | Rb | S | Sb | Sc | Si | SiO2 | Sm | Sn | Sr | Ta | Tb | Th |
|----------|-----------|--------|-----------|-------------|-----------|-------|-------|----------|------------|--------|-------------|-------------|----------|
| GSJ-JF-1 | (<0.0005) | 0.0266 | (<0.0005) | (0.0000055) | 0.000023 | 31.17 | 66.69 | 0.000041 | (0.00003) | 0.0172 | 0.0000079 | 0.0000076 | 0.000117 |
| GSJ-JF-2 | (<0.0005) | 0.0218 | (0.00028) | (0.000004) | 0.0000089 | 30.52 | 65.30 | 0.000011 | (0.000013) | 0.0200 | (0.0000045) | (0.0000009) | 0.000031 |

| 编号 | Ti | TiO2 | Tl | Tm | U | V | W | Y | Yb | Zn | Zr |
|----------|-------|-------|----------|------------|-------------|----------|-----------|----------|-------------|----------|----------|
| GSJ-JF-1 | 0.003 | 0.005 | 0.000118 | (0.000004) | 0.000033 | 0.000543 | (0.00008) | 0.000284 | 0.000034 | 0.000441 | 0.00386 |
| GSJ-JF-2 | 0.003 | 0.005 | 0.000110 | (0.000005) | (0.0000078) | 0.000486 | (0.00043) | 0.000267 | (0.0000045) | 0.000140 | 0.000673 |

| 编号 | 描述 | 种类 | Al2O3 | As | B | Ba | Be | CO2 | CaO | Ce | Co | Cr | Cs | Cu | F | 规格 |
|-----------|-----------------------|-----|-------|---------|-------|------|---------|------|------|---------|---------|--------|---------|---------|------|------|
| UN ZK | Feldspar | CRM | 14.19 | 0.00048 | | | | | 0.43 | 0.00057 | 0.00070 | | 0.00387 | 0.00122 | | 100g |
| VS-811-89 | Fluorspar-quartz silt | CRM | 18.20 | | 0.008 | 0.09 | 0.00030 | 0.20 | 0.51 | 0.007 | 0.0021 | 0.0096 | 0.00063 | 0.0041 | 0.06 | 100g |

| 编号 | FeO | Fe2O3 | Ga | Ge | H2O | Hf | K2O | Li | Li2O | LOI | MgO | MnO | Mo |
|-----------|------|-------|---------|---------|-----|---------|------|-------|------|------|-------|-------|---------|
| UN ZK | 0.73 | 0.88 | 0.00333 | | | 0.00014 | 4.06 | | 0.06 | 0.54 | 0.067 | 0.025 | 0.00210 |
| VS-811-89 | 4.8 | 7.20 | 0.0022 | 0.00017 | 4.0 | | 3.43 | 0.006 | | | 2.22 | 0.042 | 0.00020 |

| 编号 | Na2O | Nb | Ni | P2O5 | Pb | Rb | Rb2O | S | Sc | SiO2 | Sn | Sr | Ta |
|-----------|------|---------|---------|------|--------|-------|-------|-------|---------|-------|---------|-------|---------|
| UN ZK | 4.50 | 0.00335 | 0.00294 | | | | 0.094 | | 0.00036 | 74.38 | 0.00168 | | 0.00194 |
| VS-811-89 | 2.31 | 0.0014 | 0.0059 | 0.19 | 0.0020 | 0.012 | | 0.087 | 0.0019 | 60.67 | 0.00032 | 0.017 | 0.00013 |

| 编号 | Th | TiO2 | U | V | Y | Yb | Zn | Zr |
|-----------|---------|-------|---------|-------|---------|---------|---------|-------|
| UN ZK | 0.00047 | 0.039 | | | 0.00084 | | 0.00194 | |
| VS-811-89 | 0.0011 | 0.94 | 0.00025 | 0.016 | 0.0032 | 0.00034 | 0.012 | 0.021 |

Feldspar continued长石

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| 编号 | 描述 | 种类 | Al | Al2O3 | Ba | BaO | Ca | CaO | Cr2O3 | Cs | Cu | Fe | Fe2O3 | Ga | K | 规格 |
|-------------------|----------|-----|-------|-------|--------|--------|--------|-------|---------|---------|--------|---------|-------|--------|------|------------|
| BAS-BCS-CRM 375/1 | Feldspar | CRM | | 17.88 | | | | 0.78 | | | | | 0.291 | | | 100g |
| BAS-BCS-CRM 376/1 | Feldspar | CRM | | 18.63 | | 0.0210 | | 0.421 | (0.001) | | | | 0.085 | | | 100g |
| CERAM-CAS8 | Feldspar | RM | | 18.5 | | | | 0.20 | | | | | 0.11 | | | 25g / 100g |
| DH-SX16-02 | Feldspar | RM | | 17.16 | | 0.323 | | 0.032 | | | | 0.047 | | | | 100g |
| NIM-GBW03116 | Feldspar | CRM | | 18.63 | | | | 0.76 | | | | | 0.19 | | | 50g |
| Z FK | Feldspar | CRM | | 6.18 | 0.0700 | | | 0.110 | | 0.00026 | 0.0011 | | 0.261 | 0.0006 | | 50g |
| IPT-53 | Feldspar | CRM | | 18.3 | | | | 0.27 | | | | | 0.13 | | | 80g |
| IPT-72 | Feldspar | CRM | | 20.26 | | | | 0.18 | | | | | 0.09 | | | 80g |
| NIST-70A | Feldspar | CRM | | 17.9 | | 0.02 | | 0.11 | | | | | 0.075 | | | 40g |
| NIST-99B | Feldspar | CRM | 10.36 | | 0.1409 | | (1.18) | | | | | 0.02787 | | | 3.09 | 40g |

| 编号 | K2O | Li | LOI | MgO | Mn | MnO | Mn2O3 | Na | Na2O | P | P2O5 | Pb | PbO |
|-------------------|-------|--------|-------|---------|------------|--------|---------|------|------|----------|--------|---------|--------|
| BAS-BCS-CRM 375/1 | 1.47 | | 0.72 | 0.180 | | | | | 8.89 | | 0.226 | | |
| BAS-BCS-CRM 376/1 | 11.59 | | 0.203 | (0.03) | | | (0.004) | | 3.00 | | (0.02) | | 0.0090 |
| CERAM-CAS8 | 10.6 | | 0.24 | 0.03 | | | | | 3.62 | | | | |
| DH-SX16-02 | 14.19 | | | | | 0.001 | | | | | 0.087 | | 0.012 |
| NIM-GBW03116 | 9.60 | | 0.86 | 0.054 | | | | | 3.69 | | | | |
| Z FK | 4.23 | 0.0008 | | 0.15 | | 0.0037 | | | 0.25 | | 0.077 | 0.0018 | |
| IPT-53 | 12.1 | | 0.51 | 0.05 | | | | | 2.5 | | 0.072 | | |
| IPT-72 | 1.47 | | 0.66 | (0.022) | | | | | 10.0 | | 1.03 | | |
| NIST-70A | 11.8 | | 0.40 | | | | | | 2.55 | | | | |
| NIST-99B | | | | | (0.001747) | | | 5.25 | | (0.0044) | | 0.00712 | |

| 编号 | Rb | Rb2O | Si | SiO2 | Sr | SrO | TiO2 | Zn | ZrO2 |
|-------------------|---------|------|---------|-------|--------|-------|---------|--------|---------|
| BAS-BCS-CRM 375/1 | | | | 69.24 | | | 0.312 | | |
| BAS-BCS-CRM 376/1 | | | | 65.77 | | | (<0.01) | | (<0.01) |
| CERAM-CAS8 | | | | 66.8 | | | 0.02 | | |
| DH-SX16-02 | | | | 66.93 | | 0.036 | 0.038 | | |
| NIM-GBW03116 | | | | 66.26 | | | 0.048 | | |
| Z FK | 0.0132 | | | 88.2 | 0.0072 | | 0.058 | 0.0014 | |
| IPT-53 | | | | 65.8 | | | 0.013 | | |
| IPT-72 | | | | 66.2 | | | 0.005 | | |
| NIST-70A | | 0.06 | | 67.12 | | | 0.01 | | |
| NIST-99B | 0.00726 | | (32.07) | | 0.0444 | | | | |

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Fluorspar 萤石

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | BaO | Bi | CO2 | Ca | CaCO3 | CaF2 | Ce | Co | Cr | Cs | 规格 |
|-------|-----------|-----|-----------|---------|-----------|------|-----------|--------|-------------|-------|---------|---------|---------|--------|----------|------|
| UN FM | Fluorspar | CRM | (0.00108) | (0.329) | (0.00194) | 3.89 | (0.00588) | (0.13) | 35.89 (tot) | | (69.18) | 0.00283 | 0.00026 | 0.0272 | 0.000081 | 100g |

| 编号 | Cu | Eu | F | Fe (tot)* | Gd | H2O+ | Hf | K2O | La | Lu | MgO | Mn | Mo |
|-------|---------|----------|-------|-----------|-----------|--------|-----------|-------|---------|------------|---------|--------|---------|
| UN FM | 0.00607 | 0.000116 | 34.03 | 0.496 | (0.00054) | (0.20) | (0.00026) | 0.097 | 0.00141 | (0.000037) | (0.036) | 0.0064 | 0.00446 |

| 编号 | Na2O | Nd | Ni | P2O5 | Pb | Rb | S | Sb | Sc | SiO2 | Sm | Sr | Ta |
|-------|---------|-----------|----------|---------|---------|-----------|----------|---------|----------|-------|---------|----------|------------|
| UN FM | (0.087) | (0.00153) | (0.0029) | (0.022) | 0.00722 | (0.00055) | 0.91 tot | 0.00021 | 0.000067 | 22.59 | 0.00056 | (0.0580) | (0.000009) |

| 编号 | Tb | Th | TiO2 | Tm | U | V | W | Y | Yb | Zn | Zr |
|-------|------------|-----------|-------|------------|---------|------------|----------|--------|--------|-----------|----------|
| UN FM | (0.000159) | (0.00123) | 0.018 | (0.000045) | 0.00029 | (0.000443) | (0.0115) | 0.0154 | 0.0003 | (0.00233) | (0.0045) |

| 编号 | 描述 | 种类 | Al2O3 | BaO | CO2 | Ca | Cr2O3 | CuO | F | Fe2O3 | H2O (900°C) | K2O | MgO | MnO | Na2O | 规格 |
|------------|-----------|----|-------|--------|-------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|------|
| DH-SX27-07 | Fluorspar | RM | 0.371 | <0.006 | 2.91 | 46.76 | | | 41.79 | 0.257 | 0.363 | 0.042 | 0.070 | 0.008 | 0.061 | 100g |
| DH-SX27-09 | Fluorspar | RM | 0.310 | | 0.027 | 39.98 | 0.004 | 0.052 | 38.10 | 15.72 | 0.929 | 0.029 | 0.017 | 0.077 | 0.030 | 100g |
| DH-SX27-12 | Fluorspar | RM | 1.01 | | 2.11 | 44.18 | 0.106 | 0.199 | 40.6 | 0.373 | 0.370 | 0.125 | 0.739 | 0.237 | | 100g |

| 编号 | NiO | PbO | SO4 | SiO2 | SnO2 | TiO2 | ZnO |
|------------|-------|---------|-------|------|-------|-------|-------|
| DH-SX27-07 | | 0.00019 | 0.042 | 6.16 | | | |
| DH-SX27-09 | | | 0.027 | 3.93 | | | 0.004 |
| DH-SX27-12 | 0.153 | 0.102 | 0.103 | 8.91 | 0.054 | 0.069 | 0.103 |

| 编号 | 描述 | 种类 | CaCO3 | CaF2 | Fe (tot) | Fe2O3 | K2O | MgCO3 | Mn | Na2O | P | S | SiO2 | 规格 |
|--------------|-----------|-----|--------|-------|----------|--------|-------|--------|--------|-------|---------|-------|--------|------|
| NIM-GBW07250 | Fluorspar | CRM | (0.02) | 94.91 | | 0.096 | 0.019 | | | 0.005 | 0.0025 | 0.029 | 4.72 | 65g |
| NIM-GBW07251 | Fluorspar | CRM | (0.02) | 90.87 | | 0.124 | 0.026 | | | 0.005 | 0.0031 | 0.090 | 8.35 | 65g |
| NIM-GBW07252 | Fluorspar | CRM | (0.02) | 92.57 | | 0.124 | 0.029 | | | 0.006 | 0.0024 | 0.043 | 6.84 | 65g |
| NIM-GBW07253 | Fluorspar | CRM | (0.02) | 85.21 | | 0.209 | 0.044 | | | 0.005 | 0.0013 | 0.045 | 14.15 | 65g |
| IPT-95 | Fluorspar | CRM | | 85.4 | | 0.36 | | | | | | | 8.3 | 100g |
| NCS DC14022A | Fluorspar | CRM | 0.30 | 93.68 | 0.166 | | 0.026 | | | 0.006 | 0.014 | 0.35 | 3.06 | 65g |
| NCS DC14024A | Fluorspar | CRM | 0.62 | 93.28 | 0.22 | | 0.040 | | | 0.006 | 0.0014 | 0.009 | 5.44 | 65g |
| NCS DC14025A | Fluorspar | CRM | 0.07 | 81.55 | 0.28 | | 0.059 | | | 0.008 | 0.015 | 0.50 | 14.04 | 65g |
| NCS DC14046 | Fluorspar | CRM | 0.07 | 59.99 | 0.63 | | 0.14 | | | 0.014 | 0.0045 | 0.28 | 36.14 | 50g |
| NCS DC14047 | Fluorspar | CRM | 0.060 | 65.80 | 0.49 | | 0.093 | | | 0.009 | 0.0027 | 0.26 | 31.04 | 50g |
| NCS DC14048 | Fluorspar | CRM | 0.34 | 76.79 | 0.40 | | 0.081 | | | 0.007 | 0.0021 | 0.11 | 21.10 | 50g |
| SARM 14 | Fluorspar | CRM | (0.3) | 97.32 | | (0.06) | | (0.03) | | | (0.079) | | (0.57) | 100g |
| SARM 15 | Fluorspar | CRM | 0.95 | 97.84 | | (0.23) | | 0.55 | 0.0213 | | 0.007 | | (0.26) | 100g |
| NIST-180 | Fluorspar | CRM | | 98.80 | | | | | | | | | | 120g |
| NIST-79A | Fluorspar | CRM | | 97.39 | | | | | | | | | | 120g |
| VS-1822-80 | Fluorspar | CRM | 0.41 | 93.86 | | | | | | | 0.057 | 0.410 | 3.16 | 100g |
| VS-1823-80 | Fluorspar | CRM | 0.20 | 95.83 | | | | | | | 0.024 | | 2.92 | 100g |
| VS-2665-83 | Fluorspar | CRM | 6.80 | 38.00 | | | | | | | 0.036 | 0.32 | 25.57 | 100g |
| VS-2666-83 | Fluorspar | CRM | 0.70 | 32.02 | | | | | | | 0.055 | 1.24 | 47.73 | 100g |
| VS-4182-87 | Fluorspar | CRM | 1.70 | 32.75 | | | | | | | 0.114 | 0.038 | 47.52 | 100g |

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| | | | | | | | | | | | | | | | | | |
|------------|-----------|-----|-------|-------|--|--|--|--|--|--|--|--|--|--|--|---------|------|
| VS-5132-89 | Fluorspar | CRM | 11.75 | 32.69 | | | | | | | | | | | | (27.68) | 100g |
| VS-5133-89 | Fluorspar | CRM | 1.10 | 4.17 | | | | | | | | | | | | | 100g |

Fluorspar continued 萤石

| 编号 | 描述 | 种类 | Al ₂ O ₃ | Ba | BaO | CO ₂ | Ca (tot) | CaCO ₃ | CaF ₂ | CaO | F | Fe | Fe ₂ O ₃ | K ₂ O | LOI | 规格 | |
|-----------------|-----------|-----|--------------------------------|-------|------|-----------------|----------|-------------------|------------------|------|-------|-------|--------------------------------|------------------|------|------|-----|
| BAS-BCS-CRM 392 | Fluorspar | CRM | | | 0.37 | 0.48 | | | 97.2 | 0.52 | | | | | | 100g | |
| IGS-39 | Fluorspar | CRM | | (0.4) | | | | | | | 46.69 | | | | | 55g | |
| JK C | Fluorspar | CRM | 0.66 | | 8.2 | | | | 76.91 | | | | 0.70 | | | 100g | |
| JK D | Fluorspar | CRM | 0.04 | | | | | | 97.07 | | | | 0.20 | | | 100g | |
| CGL-USZHJ | Fluorspar | CRM | 2.35 | | | | 37.32 | | | | | | | 0.34 | 0.99 | 100g | |
| NCS DC62003A | Fluorspar | CRM | 3.69 | | | | | | 60.98 | 1.17 | | | | 2.35 | 1.44 | 1.38 | 20g |
| VS-3383-86 | Fluorspar | CRM | 0.53 | | | | | | 91.84 | | | 0.612 | | | | 100g | |
| VS-K13 | Fluorspar | CRM | | | | | | 0.51 | 84.7 | | | 0.353 | | | | 100g | |

| 编号 | MgO | Na ₂ O | P | Pb | S | SO ₃ | SiO ₂ | Sr | TiO ₂ |
|-----------------|------|-------------------|-------|----------|-------|-----------------|------------------|---------|------------------|
| BAS-BCS-CRM 392 | | | | 0.18 | 0.12 | | 0.67 | | |
| IGS-39 | | | | | | | | (0.014) | |
| JK C | | | 0.026 | 0.07 | 1.75 | | 8.2 | | |
| JK D | | | 0.035 | (<0.001) | 0.004 | | (1.5) | | |
| CGL-USZHJ | | | | | | | 23.01 | | 0.047 |
| NCS DC62003A | 0.18 | 0.52 | | | | 0.12 | 26.20 | | 0.15 |
| VS-3383-86 | | | 0.063 | | 0.095 | | 5.03 | | |
| VS-K13 | | | 0.012 | | 0.103 | | 13.0 | | |

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Gabbro 辉长岩

| 编号 | 描述 | 种类 | Al2O3 | Ba | Be | CO2 | CaO | Ce | Co | Cr | Cu | Dy | Er | Eu | F | 规格 |
|----------------|------------------|-----|------------|------------|------------|------------|----------|------------|------------|-----------|------------|------------|------------|------------|----------|-------------|
| CGL-USZ52-2010 | Gabbro (CGL 013) | CRM | 22.57 | 0.004994 | | | 14.99 | (0.000343) | 0.003521 | 0.003572 | 0.0608 | (0.000079) | (0.000044) | (0.000037) | (0.099) | 100g / 250g |
| CGL-USZ51-2009 | Gabbro (CGL 012) | CRM | 26.26 | 0.0119 | | | 13.61 | 0.000790 | 0.001493 | 0.006997 | 0.004532 | | | | (0.085) | 100g |
| VS-2117-81 | Gabbro | CRM | 13.67 | 0.0110 | (0.0001) | (0.16) | 15.75 | | 0.0065 | 0.0014 | 0.3600 | | | | 0.0720 | 40g |
| VS-2118-81 | Gabbro | CRM | 16.94 | 0.1300 | (0.00029) | 0.37 | 7.36 | | 0.0024 | 0.0021 | 0.0100 | | | | (0.0690) | 40g |
| VS-2119-81 | Gabbro | CRM | 13.35 | 0.044 | 0.000082 | 0.33 | 7.81 | | 0.0069 | 0.0056 | 0.0069 | | | | 0.16 | 40g |
| 编号 | | | Fe | FeO | Fe2O3 | Fe (tot)* | Ga | Gd | Ge | H2O | H2O- | H2O+ | Hf | Ho | K2O | |
| CGL-USZ52-2010 | | | | 4.57 | | 10.99 | 0.001794 | (0.000080) | | (0.21) | | (0.46) | (0.000032) | (0.000016) | 0.11 | |
| CGL-USZ51-2009 | | | | 2.00 | | 4.22 | 0.001887 | | | | (0.13) | (0.61) | | | 0.31 | |
| VS-2117-81 | | | | 9.05 | 18.54 | | 0.0021 | | 0.00021 | (0.12) | | | | | 0.204 | |
| VS-2118-81 | | | | 5.43 | 9.93 | | 0.0024 | | 0.00011 | 1.67 | | | | | 2.25 | |
| VS-2119-81 | | | | 14.98 | 4.33 | 20.98 | 0.0013 | | | 1.25 | | | | | 0.80 | |
| 编号 | | | La | Li | LOI | Lu | MgO | MnO | Mo | Na2O | Nb | Nd | Ni | P2O5 | Pb | |
| CGL-USZ52-2010 | | | (0.000131) | (0.000489) | (1.03) | (0.000006) | 4.51 | 0.10 | (0.000050) | 1.41 | (0.000036) | (0.000233) | 0.002334 | (0.038) | 0.000468 | |
| CGL-USZ51-2009 | | | | | 1.40 | | 2.85 | 0.080 | | 2.42 | | | 0.002394 | 0.078 | 0.000600 | |
| VS-2117-81 | | | | 0.00033 | | | 8.66 | 0.222 | 0.00020 | 0.72 | | | 0.0028 | 2.15 | 0.0006 | |
| VS-2118-81 | | | 0.0046 | 0.0013 | | | 3.74 | 0.187 | 0.00020 | 4.20 | | | 0.0014 | 0.476 | 0.0020 | |
| VS-2119-81 | | | | | | | 7.48 | 0.198 | (0.00027) | 2.35 | (0.00095) | | 0.0063 | 2.21 | 0.0011 | |
| 编号 | | | Pr | Rb | S | Sc | SiO2 | Sm | Sn | Sr | Tb | TiO2 | Tm | V | Y | |
| CGL-USZ52-2010 | | | (0.000050) | (0.000196) | | 0.003966 | 43.15 | (0.000072) | | 0.0778 | (0.000013) | 0.94 | (0.000005) | 0.0420 | 0.000430 | |
| CGL-USZ51-2009 | | | | 0.000658 | | 0.001233 | 48.00 | | | 0.1196 | | 0.37 | | 0.008528 | 0.000514 | |
| VS-2117-81 | | | | (0.00045) | 0.1240 | 0.0037 | 37.62 | | 0.00065 | 0.1040 | | 1.46 | | 0.0960 | (0.0016) | |
| VS-2118-81 | | | | 0.0042 | (0.0070) | 0.0024 | 52.04 | | 0.00055 | 0.0810 | | 1.02 | | 0.0220 | 0.0038 | |
| VS-2119-81 | | | | | 0.082 | 0.0017 | 37.66 | | 0.00044 | (0.00330) | | 6.99 | | 0.012 | (0.0031) | |
| 编号 | | | Yb | Zn | Zr | | | | | | | | | | | |
| CGL-USZ52-2010 | | | (0.000039) | 0.009800 | (0.00120) | | | | | | | | | | | |
| CGL-USZ51-2009 | | | | 0.005987 | (0.003349) | | | | | | | | | | | |
| VS-2117-81 | | | 0.00026 | 0.0136 | (0.0050) | | | | | | | | | | | |
| VS-2118-81 | | | 0.00028 | 0.0077 | 0.0160 | | | | | | | | | | | |
| VS-2119-81 | | | (0.00027) | 0.012 | 0.0100 | | | | | | | | | | | |

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Gabbro continued 辉长岩

| 编号 | 描述 | 种类 | Ag | Al | Al ₂ O ₃ | As | Au | B | Ba | Be | Bi | Br | C | C (org) | CO ₂ | 规格 |
|--------------|--------|-----|-------------|------|--------------------------------|------------|-------------|-----------|---------|------------|-------------|------------|----------|---------|-----------------|------|
| NIM-GBW07112 | Gabbro | CRM | 0.000005 | | 14.14 | (0.00021) | | 0.000184 | 0.00862 | (0.000098) | 0.000004 | (0.000032) | | (0.039) | 0.12 | 70g |
| GSJ-JGB-1 | Gabbro | CRM | (0.0000024) | 9.26 | 17.49 | 0.000109 | 0.000000102 | 0.000403 | 0.00643 | (0.000034) | (0.0000014) | | (0.0300) | | | 20g |
| GSJ-JGB-2 | Gabbro | CRM | | | 23.48 | (0.000096) | | (0.00049) | 0.00365 | | (0.0000022) | | (0.0880) | | | 100g |
| VS-8670-2005 | Gabbro | CRM | (0.000009) | | 14.93 | | (0.0000004) | (0.0015) | 0.152 | 0.00019 | | | | | | 100g |
| VS-MO8 | Gabbro | CRM | | | 16.39 | | | 0.00075 | 0.0272 | 0.00008 | | | | | 0.43 | 40g |

| 编号 | Ca | CaO | Cd | Ce | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | F |
|--------------|------|-------|-----------|----------|----------|---------|---------|------------|---------|------------|------------|----------|--------|
| NIM-GBW07112 | | 9.86 | 0.000009 | 0.00042 | 0.006 | 0.00930 | 0.00145 | (0.000017) | 0.00283 | 0.000111 | 0.000047 | 0.000074 | 0.006 |
| GSJ-JGB-1 | 8.50 | 11.90 | 0.0000057 | 0.000817 | (0.0081) | 0.00601 | 0.00578 | 0.000026 | 0.00857 | 0.000156 | 0.000104 | 0.000062 | 0.0133 |
| GSJ-JGB-2 | | 14.10 | | 0.00030 | | 0.00258 | 0.0125 | 0.000051 | 0.00114 | (0.000060) | (0.000036) | 0.000059 | |
| VS-8670-2005 | | 10.68 | | 0.0163 | | 0.0040 | 0.0058 | 0.00033 | 0.0058 | 0.00062 | 0.00028 | 0.00039 | 0.13 |
| VS-MO8 | | 9.02 | | | 0.0270 | 0.0048 | 0.0126 | 0.00011 | 0.0040 | | | | 0.0390 |

| 编号 | Fe | FeO | Fe ₂ O ₃ | Fe (tot)* | Ga | Gd | Ge | H ₂ O | H ₂ O- | H ₂ O+ | H ₂ O (tot) | Hf | Hg |
|--------------|-------|-------|--------------------------------|-----------|---------|------------|----------|------------------|-------------------|-------------------|------------------------|----------|--------------|
| NIM-GBW07112 | | 13.36 | 9.90 | | 0.00237 | 0.000131 | 0.000106 | 1.09 | | | | 0.000065 | (0.0000005) |
| GSJ-JGB-1 | 10.53 | 9.43 | 4.79 | 15.06 | 0.00179 | 0.000161 | 0.000101 | | 0.13 | 1.28 | | 0.000088 | (0.00000042) |
| GSJ-JGB-2 | | 5.41 | 0.62 | 6.69 | 0.00159 | (0.000048) | | | 0.14 | (1.46) | | 0.000025 | (0.00000019) |
| VS-8670-2005 | | 6.23 | | 11.33 | 0.0017 | 0.00115 | 0.00013 | | | (0.93) | | 0.00053 | |
| VS-MO8 | | 9.61 | 0.85 | 11.53 | 0.0018 | | | 0.088 | | 0.22 | 0.31 | | |

| 编号 | Ho | I | In | K | K ₂ O | La | Li | LOI | Lu | Mg | MgO | Mn | MnO |
|--------------|------------|----------|----------|------|------------------|----------|-----------|--------|-----------|------|------|-------|-------|
| NIM-GBW07112 | 0.000020 | 0.000008 | 0.000012 | | 0.16 | 0.000171 | 0.000194 | | 0.000006 | | 5.25 | | 0.193 |
| GSJ-JGB-1 | 0.000033 | | | 0.20 | 0.24 | 0.000360 | 0.000459 | | 0.000015 | 4.73 | 7.85 | 0.146 | 0.189 |
| GSJ-JGB-2 | (0.000015) | | | | 0.059 | 0.00015 | (0.00157) | | 0.0000062 | | 6.18 | | 0.13 |
| VS-8670-2005 | 0.00011 | | | | 3.09 | 0.0082 | 0.0012 | (0.77) | 0.00003 | | 6.81 | | 0.167 |
| VS-MO8 | | | | | 0.46 | 0.0026 | 0.00055 | | | | 6.39 | | 0.16 |

| 编号 | Mo | Na | Na ₂ O | Nb | Nd | Ni | P | P ₂ O ₅ | Pb | Pd | Pr | Pt | Rb |
|----|----|----|-------------------|----|----|----|---|-------------------------------|----|----|----|----|----|
|----|----|----|-------------------|----|----|----|---|-------------------------------|----|----|----|----|----|

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|--------------|------------|------|---------|----------|----------|---------|-------|------------|----------|-------------|------------|-------------|----------|
| NIM-GBW07112 | (0.000094) | 2.11 | 0.00093 | 0.000410 | 0.0069 | | 0.028 | (0.000516) | | 0.00084 | | (0.000479) | |
| GSJ-JGB-1 | 0.000059 | 0.89 | 1.20 | 0.000334 | 0.000547 | 0.00254 | 0.024 | 0.056 | 0.000192 | 0.000000018 | 0.000113 | <0.00000005 | 0.000687 |
| GSJ-JGB-2 | 0.000042 | | 0.92 | 0.00019 | 0.00018 | 0.00136 | | 0.017 | 0.00015 | | (0.000039) | | 0.00029 |
| VS-8670-2005 | 0.00014 | | 2.72 | 0.00084 | 0.0089 | 0.0047 | | 1.03 | 0.0015 | | 0.00207 | | 0.0080 |
| VS-MO8 | 0.00032 | | 3.27 | 0.00037 | | 0.0018 | | 0.21 | 0.00073 | | | | 0.00040 |

| 编号 | Re | S | Sb | Sc | Se | Si | SiO2 | Sm | Sn | Sr | Ta | Tb | Te |
|--------------|--------------|----------|-------------|---------|------------|-------|-------|----------|------------|--------|------------|----------|----------|
| NIM-GBW07112 | | 0.37 | (0.000004) | 0.00225 | 0.000026 | | 35.69 | 0.000122 | 0.000089 | 0.0612 | (0.000056) | 0.000020 | 0.000010 |
| GSJ-JGB-1 | (0.000000027 | 0.1910 | (0.0000085) | 0.00358 | (0.000015) | 20.41 | 43.66 | 0.000149 | 0.000048 | 0.0327 | 0.000018 | 0.000029 | |
| GSJ-JGB-2 | | (0.0599) | (0.000012) | 0.00247 | | | 46.47 | 0.000051 | (0.000048) | 0.0438 | 0.000029 | 0.000015 | |
| VS-8670-2005 | | (0.015) | | 0.0026 | | | 46.63 | 0.0017 | 0.00032 | 0.224 | 0.00005 | 0.00015 | |
| VS-MO8 | | 0.1799 | | 0.0031 | | | 51.98 | | 0.00027 | 0.0477 | | | |

| 编号 | Th | Ti | TiO2 | Tl | Tm | U | V | W | Y | Yb | Zn | Zr |
|--------------|------------|------|------|-------------|-------------|-------------|--------|------------|---------|----------|---------|---------|
| NIM-GBW07112 | (0.000028) | | 7.69 | 0.000007 | 0.000009 | (0.000086) | 0.0768 | (0.000010) | 0.00049 | 0.000036 | 0.0118 | 0.0029 |
| GSJ-JGB-1 | 0.000048 | 0.96 | 1.60 | (0.0000066) | 0.000016 | 0.000013 | 0.0635 | (0.000081) | 0.00104 | 0.000106 | 0.0109 | 0.00328 |
| GSJ-JGB-2 | 0.000019 | | 0.56 | | (0.0000059) | (0.0000041) | 0.0174 | (0.00016) | 0.00045 | 0.000039 | 0.00485 | 0.00116 |
| VS-8670-2005 | 0.0008 | | 1.72 | | (0.000035) | 0.00018 | 0.0250 | | 0.0030 | 0.00025 | 0.0120 | 0.0219 |
| VS-MO8 | | | 1.15 | | | | 0.0199 | | 0.0018 | 0.00020 | 0.0084 | 0.0048 |

Granite花岗岩

| 编号 | 描述 | 种类 | Ag | Al | Al2O3 | As | Au (ppm) | B | Ba | Be | Bi | C | Ca | CaO | Cd | 规格 |
|----------|----------|----------|-------------|----------|-----------|------------|------------|------------|-------------|-------------|------------|------------|-----------|------|-------------|-----|
| GSJ-JG-2 | Granite | CRM | (0.0000019) | 6.60 | 12.47 | (0.000068) | (0.000059) | (0.000178) | 0.00810 | 0.00326 | (0.000064) | (0.0035) | 0.50 | 0.70 | (0.0000004) | 20g |
| 编号 | Ce | Co | Cr | Cs | Cu | Dy | Er | Eu | F | Fe | FeO | Fe2O3 | Fe (tot)* | | | |
| GSJ-JG-2 | 0.00483 | 0.000362 | 0.000637 | 0.000679 | 0.000049 | 0.00105 | 0.000604 | 0.000010 | (0.0972) | 0.68 | 0.57 | 0.33 | 0.97 | | | |
| 编号 | Ga | Gd | Ge | H2O- | H2O+ | Hf | Hg (ppm) | Ho | In | Ir (ppm) | K | K2O | La | | | |
| GSJ-JG-2 | 0.00186 | 0.000801 | (0.000170) | 0.12 | 0.33 | 0.000473 | (0.0033) | 0.000167 | (0.0000021) | (0.0000040) | 3.91 | 4.71 | 0.00199 | | | |
| 编号 | Li | Lu | Mg | MgO | Mn | MnO | Mo | Na | Na2O | Nb | Nd | Ni | P | | | |
| GSJ-JG-2 | 0.00422 | 0.000122 | 0.02 | 0.037 | 0.012 | 0.016 | 0.000037 | 2.63 | 3.54 | 0.00147 | 0.00264 | (0.000435) | 0.001 | | | |
| 编号 | P2O5 | Pb | Pd (ppm) | Pr | Pt (ppm) | Rb | Re (ppm) | S | Sb | Sc | Si | SiO2 | Sm | | | |
| GSJ-JG-2 | 0.002 | 0.00315 | (<0.0002) | 0.000620 | (<0.0005) | 0.0301 | (0.000016) | (0.00070) | (0.0000057) | 0.000242 | 35.91 | 76.83 | 0.000778 | | | |
| 编号 | Sn | Sr | Ta | Tb | Th | Ti | TiO2 | Tl | Tm | U | V | W | Y | | | |
| GSJ-JG-2 | 0.000300 | 0.00179 | 0.000276 | 0.000162 | 0.00316 | 0.026 | 0.044 | 0.000155 | 0.000116 | 0.00113 | 0.000378 | 0.00230 | 0.00865 | | | |
| 编号 | Yb | Zn | Zr | | | | | | | | | | | | | |
| GSJ-JG-2 | 0.000685 | 0.00136 | 0.00976 | | | | | | | | | | | | | |

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | B | Ba | Be | Bi | CO2 | CaO | Cd | Ce | Cl | Co | 规格 |
|------|---------|-----|--------|-------|---------|--------|--------|-----------|----|------|------|----|--------|----|---------|-----|
| Z GM | Granite | CRM | (0.09) | 13.55 | 0.00041 | 0.0011 | 0.0340 | (0.00048) | | 0.28 | 1.07 | | 0.0065 | | 0.00037 | 50g |

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|-------------|---------|-----|------------|-------|----------|--------|--------|---------|-----------|-------|------|------------|--------|----------|---------|------|
| NCS DC73376 | Granite | CRM | 0.000027 | 16.3 | 0.000025 | 0.0015 | 0.1140 | 0.00017 | 0.0000094 | 0.35 | 2.66 | (0.000006) | 0.0048 | (0.0127) | 0.00075 | 70g |
| VS-3333-85 | Granite | CRM | (0.000006) | 10.64 | (0.0004) | 0.0011 | 0.0090 | 0.0005 | | (0.1) | 0.32 | | 0.009 | | 0.00013 | 100g |

| 编号 | Cr | Cs | Cu | Dy | Er | Eu | F | FeO | Fe2O3 | Fe (tot)* | Ga | Gd | Ge |
|-------------|---------|---------|-----------|-----------|-----------|----------|--------|------|-------|-----------|--------|-----------|-----------|
| Z GM | 0.0011 | 0.00081 | 0.0013 | (0.00054) | (0.00022) | 0.000060 | 0.067 | 1.13 | 2.01 | | 0.0015 | (0.00052) | (0.00016) |
| NCS DC73376 | 0.0023 | 0.00026 | (0.00026) | 0.00015 | 0.000076 | 0.000010 | 0.0660 | 1.6 | | 3.12 | 0.0018 | 0.00024 | 0.000093 |
| VS-3333-85 | 0.00031 | 0.00045 | 0.0012 | (0.0010) | (0.0006) | 0.00004 | 0.062 | 1.61 | 4.50 | | 0.0027 | | 0.00022 |

| 编号 | H2O | H2O+ | Hf | Hg | Ho | K2O | La | Li | LOI | Lu | MgO | Mn | MnO |
|-------------|--------|-------|---------|-------------|-----------|------|--------|--------|------|----------|------|--------|-------|
| Z GM | 0.35 | | 0.00051 | (0.0000033) | (0.00010) | 4.76 | 0.0041 | 0.0050 | | 0.000040 | 0.37 | | 0.043 |
| NCS DC73376 | | (1.0) | 0.00033 | 0.00000004 | 0.000027 | 2.60 | 0.0025 | 0.0024 | 1.28 | 0.000011 | 1.63 | 0.0430 | |
| VS-3333-85 | (0.30) | | 0.0012 | | | 4.64 | 0.0045 | 0.0052 | | 0.00009 | 0.10 | | 0.120 |

| 编号 | Mo | Na2O | Nb | Nd | Ni | P | P2O5 | Pb | Pr | Rb | S | Sb | Sc |
|-------------|-----------|------|--------|--------|---------|--------|-------|---------|-----------|--------|----------|------------|---------|
| Z GM | 0.00011 | 3.78 | 0.0018 | 0.0030 | 0.00068 | | 0.062 | 0.0030 | (0.00072) | 0.0260 | | (0.000051) | 0.00048 |
| NCS DC73376 | (0.00003) | 5.3 | 0.0004 | 0.0021 | 0.00122 | 0.0570 | | 0.00077 | 0.00057 | 0.0057 | (0.0050) | 0.0000063 | 0.00050 |
| VS-3333-85 | 0.00017 | 4.24 | 0.0017 | 0.005 | 0.0006 | | 0.024 | 0.0010 | | 0.014 | (0.016) | (0.00005) | 0.00046 |

| 编号 | Se | SiO2 | Sm | Sn | Sr | Ta | Tb | Th | Ti | TiO2 | Tl | Tm | U |
|-------------|-----------|-------|---------|---------|--------|------------|----------|---------|-------|-------|------------|----------|-----------|
| Z GM | | 73.42 | 0.00049 | 0.00044 | 0.0133 | 0.00017 | 0.00007 | 0.0036 | | 0.212 | | | 0.00064 |
| NCS DC73376 | 0.0000019 | 66.3 | 0.00033 | 0.00008 | 0.0690 | (0.000033) | 0.000029 | 0.00019 | 0.178 | | (0.000020) | 0.000011 | (0.00004) |
| VS-3333-85 | | 74.76 | 0.0010 | 0.0005 | 0.0008 | 0.00011 | 0.00004 | 0.0080 | | 0.26 | | | 0.00018 |

| 编号 | V | W | Y | Yb | Zn | Zr |
|-------------|--------|-----------|---------|----------|--------|----------|
| Z GM | 0.0011 | 0.00016 | 0.0026 | 0.00031 | 0.0034 | 0.0149 |
| NCS DC73376 | 0.0045 | 0.000042 | 0.00074 | 0.000069 | 0.0046 | (0.0090) |
| VS-3333-85 | 0.0006 | (0.00011) | 0.006 | 0.0007 | 0.014 | 0.047 |

Granite continued 花岗岩

| 编号 | 描述 | 种类 | Al2O3 | As | Ba | Be | Bi | CaO | Ce | Co | Cr | Cs | Cu | Dy | Er | 规格 |
|----------------|---------|-----|-------|----------|--------|----------|----------|------|----------|----------|--------|----------|----------|----------|----------|------|
| CGL-USZ47-2008 | Granite | CRM | 14.07 | 0.000228 | 0.0350 | 0.000863 | 0.000103 | 1.15 | 0.006438 | 0.000271 | 0.0182 | 0.001702 | 0.000736 | 0.000442 | 0.000237 | 100g |

| 编号 | Eu | FeO | Fe2O3 | Ga | Gd | Ge | Hf | Ho | K2O | La | Li | LOI | Lu |
|----------------|----------|------|-------|----------|----------|----------|----------|----------|------|----------|--------|------|----------|
| CGL-USZ47-2008 | 0.000058 | 1.81 | 2.44 | 0.002280 | 0.000495 | 0.000150 | 0.000475 | 0.000085 | 4.68 | 0.002959 | 0.0124 | 0.64 | 0.000035 |

| 编号 | MgO | MnO | Mo | Na2O | Nb | Nd | Ni | P2O5 | Pb | Pr | Rb | Sb | Sc |
|----------------|------|------|----------|------|----------|----------|----------|------|----------|----------|--------|----------|----------|
| CGL-USZ47-2008 | 0.38 | 0.06 | 0.000306 | 3.63 | 0.001522 | 0.002710 | 0.000576 | 0.13 | 0.002481 | 0.000727 | 0.0275 | 0.000019 | 0.000436 |

| 编号 | SiO2 | Sm | Sn | Sr | Ta | Tb | Th | TiO2 | Tl | Tm | U | V | W |
|----------------|-------|----------|----------|--------|----------|----------|----------|------|----------|----------|----------|----------|----------|
| CGL-USZ47-2008 | 72.37 | 0.000554 | 0.001330 | 0.0111 | 0.000256 | 0.000079 | 0.001935 | 0.30 | 0.000172 | 0.000037 | 0.000544 | 0.001403 | 0.000056 |

| 编号 | Y | Yb | Zn | Zr |
|----------------|----------|----------|----------|--------|
| CGL-USZ47-2008 | 0.002519 | 0.000236 | 0.005459 | 0.0169 |

| 编号 | 描述 | 种类 | Al2O3 | As | Ba | CO2 | CaO | Ce | Cr | Cs2O | Cu | F | FeO | Fe2O3 | Fe (tot)* | 规格 |
|---------|---------|-----|-------|----|----------|--------|------|----------|--------|------|----------|------|-------|-------|-----------|------|
| SARM 1 | Granite | CRM | 12.08 | | | (0.10) | 0.78 | | | | | 0.42 | 1.30 | (0.6) | | 100g |
| SARM 48 | Granite | CRM | 11.24 | | (0.0290) | | 8.90 | (0.0850) | 0.0023 | | (0.0010) | | (0.2) | 0.58 | | 100g |

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|--------------|---------|-----|-------|----------|--|------|----------|---------|-------|--------|------|------|------|------|
| CGL-USZ28-99 | Granite | CRM | 16.13 | (0.0003) | | 0.39 | (0.0025) | (0.013) | 0.012 | 0.0008 | 1.25 | 0.29 | 0.51 | 100g |
|--------------|---------|-----|-------|----------|--|------|----------|---------|-------|--------|------|------|------|------|

| 编号 | H2O- | K2O | La | Li2O | LOI | MgO | MnO | Mo | Na2O | Nb | Ni | P2O5 | Pb |
|--------------|--------|------|----------|------|------|--------|------|----------|------|--------|--------|--------|--------|
| SARM 1 | | 4.99 | | | | (0.06) | | | 3.36 | | | | |
| SARM 48 | | 4.26 | | | | 0.18 | 0.02 | (0.0005) | 3.22 | 0.0202 | | (0.09) | 0.0135 |
| CGL-USZ28-99 | (0.05) | 3.52 | (0.0015) | 0.37 | 1.14 | (0.29) | 0.13 | | 5.25 | 0.0071 | 0.0010 | 0.028 | 0.0064 |

| 编号 | Rb | Rb2O | Sc | SiO2 | Sr | Ta | Th | TiO2 | V | Y | Zn | Zr |
|--------------|--------|------|----------|-------|----------|--------|--------|--------|----------|--------|--------|--------|
| SARM 1 | | | | 75.70 | | | | (0.09) | | | | |
| SARM 48 | 0.0291 | | | 67.11 | 0.0029 | | 0.0113 | 0.10 | (0.0008) | 0.0436 | 0.0053 | 0.0300 |
| CGL-USZ28-99 | | 0.24 | (0.0007) | 71.61 | (0.0010) | 0.0054 | | (0.03) | | | 0.0086 | 0.0046 |



Granodiorite花岗闪长岩

| 编号 | 描述 | 种类 | Ag | Al | Al2O3 | As | Au (ppm) | B | Ba | Be | Bi | Br | C | C (org) | CO2 | 规格 |
|--------------|--------------|-----|-------------|------|-------------|------------|----------|------------|---------|------------|------------|------------|----------|----------|--------|------------|
| NIM-GBW07111 | Granodiorite | CRM | 0.0000066 | | 16.56 | 0.00004 | | 0.000392 | 0.1900 | 0.000211 | 0.000005 | (0.000034) | | (0.057) | 0.15 | 70g |
| GSJ-JG-1 | Granodiorite | CRM | 0.0000034 | 7.54 | 14.24 | 0.000033 | 0.00011 | 0.000687 | 0.0466 | 0.000315 | 0.000050 | (0.000068) | (0.0216) | | | 20g |
| GSJ-JG-1A | Granodiorite | CRM | (0.0000023) | 7.57 | 14.30 | (0.000043) | 0.00021 | 0.000395 | 0.0470 | 0.000316 | (0.000043) | | (0.0295) | | | 20g / 100g |
| GSJ-JG-3 | Granodiorite | CRM | (0.0000029) | 8.19 | 15.48 | (0.000037) | 0.00017 | (0.000215) | 0.0466 | (0.000160) | (0.000005) | | (0.0120) | | | 100g |
| UG-GSP-2 | Granodiorite | CRM | | 7.88 | 14.9 | | | | 0.1340 | (0.00015) | | | | | | 50g |
| VS-2125-81 | Granodiorite | CRM | | | 15.35 | | | 0.0027 | 0.14 | 0.00037 | | | | | 0.14 | 40g |
| 编号 | | | Ca | CaO | Cd | Ce | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | F | |
| NIM-GBW07111 | | | | 4.72 | 0.000008 | 0.0112 | 0.023 | 0.00156 | 0.00376 | 0.000097 | 0.00088 | 0.000320 | 0.000157 | 0.000191 | 0.084 | |
| GSJ-JG-1 | | | 1.57 | 2.20 | 0.0000040 | 0.00458 | 0.00581 | 0.000406 | 0.00532 | 0.00101 | 0.000252 | 0.000414 | 0.000216 | 0.000073 | 0.0498 | |
| GSJ-JG-1A | | | 1.52 | 2.13 | (0.0000026) | 0.00450 | (0.0065) | 0.000590 | 0.00176 | 0.00106 | 0.000167 | 0.000444 | 0.000257 | 0.000070 | 0.0439 | |

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|------------|------|------|-------------|---------|----------|---------|---------|-----------|----------|-----------|-----------|----------|----------|
| GSJ-JG-3 | 2.64 | 3.69 | (0.0000054) | 0.00403 | (0.0156) | 0.00117 | 0.00224 | 0.000178 | 0.000681 | 0.000259 | 0.000152 | 0.000090 | (0.0317) |
| UG-GSP-2 | 1.50 | 2.10 | | 0.0410 | | 0.00073 | 0.0020 | (0.00012) | 0.0043 | (0.00061) | (0.00022) | 0.00023 | (0.3000) |
| VS-2125-81 | | 3.93 | | | | 0.0013 | 0.0037 | | 0.0057 | | | | |

| 编号 | Fe | FeO | Fe2O3 | Fe (tot)* | Ga | Gd | Ge | H2O- | H2O+ | Hf | Hg (ppm) | Ho | I (ppm) |
|--------------|------------|------|-------|-----------|---------|----------|------------|------|------|----------|----------|-----------|------------|
| NIM-GBW07111 | | 3.08 | 2.64 | | 0.00208 | 0.000509 | 0.000100 | 0.88 | | 0.00052 | 0.035 | 0.000060 | (0.078) |
| GSJ-JG-1 | 1.52 | 1.61 | 0.38 | 2.18 | 0.00178 | 0.000428 | 0.000144 | 0.07 | 0.54 | 0.000356 | 0.0165 | 0.000081 | (0.000012) |
| GSJ-JG-1A | 1.40 | 1.36 | 0.51 | 2.00 | 0.00165 | 0.000408 | (0.00015) | 0.12 | 0.59 | 0.000359 | (0.0041) | 0.000082 | |
| GSJ-JG-3 | 2.58 | 1.83 | 1.62 | 3.69 | 0.00171 | 0.000292 | (0.000106) | 0.17 | 0.67 | 0.000429 | (0.0024) | 0.000038 | |
| UG-GSP-2 | 3.43 (tot) | | | 4.90 | 0.0022 | (0.0012) | | | | (0.0014) | | (0.00010) | |
| VS-2125-81 | | 2.87 | 5.23 | | 0.0022 | | 0.00018 | | | | | | |

| 编号 | In | Ir (ppm) | K | K2O | La | Li | Lu | Mg | MgO | Mn | MnO | Mo | Na |
|--------------|-------------|-------------|------|------|---------|----------|------------|------|------|--------|-------|-----------|------|
| NIM-GBW07111 | 0.000008 | | | 3.50 | 0.00605 | 0.00162 | 0.000024 | | 2.81 | | 0.094 | 0.000047 | |
| GSJ-JG-1 | (0.0000044) | | 3.30 | 3.98 | 0.00224 | 0.00866 | 0.000039 | 0.45 | 0.74 | 0.049 | 0.063 | 0.000175 | 2.51 |
| GSJ-JG-1A | (0.0000025) | | 3.29 | 3.96 | 0.00213 | 0.00795 | 0.000044 | 0.42 | 0.69 | 0.044 | 0.057 | 0.000045 | 2.51 |
| GSJ-JG-3 | | (0.0000016) | 2.19 | 2.64 | 0.00206 | 0.00209 | 0.000026 | 1.08 | 1.79 | 0.055 | 0.071 | 0.000045 | 2.94 |
| UG-GSP-2 | 4.48 | | 4.48 | 5.38 | 0.0180 | (0.0036) | (0.000023) | 0.58 | 0.96 | 0.0320 | | (0.00021) | 2.06 |
| VS-2125-81 | | | | 3.98 | | 0.0020 | | | 1.87 | | 0.160 | 0.000322 | |

| 编号 | Na2O | Nb | Nd | Ni | P | P2O5 | Pb | Pd (ppm) | Pr | Pt (ppm) | Rb | Re (ppm) | S |
|--------------|------|----------|---------|----------|-------|-------|---------|-----------|----------|-----------|---------|------------|-----------|
| NIM-GBW07111 | 4.05 | 0.00106 | 0.00481 | 0.00244 | | 0.34 | 0.00198 | | 0.00132 | | 0.00701 | | 0.011 |
| GSJ-JG-1 | 3.38 | 0.00124 | 0.00193 | 0.000747 | 0.043 | 0.099 | 0.00254 | (<0.0002) | 0.000483 | (<0.0005) | 0.0182 | (0.000098) | 0.00109 |
| GSJ-JG-1A | 3.39 | 0.00114 | 0.00204 | 0.000691 | 0.036 | 0.083 | 0.00264 | (<0.0002) | 0.000563 | (<0.0005) | 0.0178 | (0.000015) | (0.0011) |
| GSJ-JG-3 | 3.96 | 0.000588 | 0.00172 | 0.00143 | 0.053 | 0.122 | 0.00117 | (<0.0002) | 0.000470 | (<0.0005) | 0.00673 | (0.000033) | (0.00547) |
| UG-GSP-2 | 2.78 | 0.0027 | 0.0200 | 0.0017 | 0.13 | 0.29 | 0.0042 | | (0.0051) | | 0.0245 | | |
| VS-2125-81 | 3.25 | 0.00088 | | 0.0015 | | 0.228 | 0.016 | | | | 0.016 | | 0.019 |

| 编号 | Sb | Sc | Se | Si | SiO2 | Sm | Sn | Sr | Ta | Tb | Te | Th | Ti |
|--------------|-------------|----------|------------|-------|-------|----------|----------|--------|----------|----------|-----------|----------|------|
| NIM-GBW07111 | 0.00006 | 0.00103 | 0.000003 | | 59.68 | 0.000774 | 0.000144 | 0.1198 | 0.000062 | 0.000068 | 0.0000011 | 0.00109 | |
| GSJ-JG-1 | 0.000013 | 0.000653 | 0.00000030 | 33.80 | 72.30 | 0.000462 | 0.000360 | 0.0184 | 0.000179 | 0.000078 | | 0.00132 | 0.16 |
| GSJ-JG-1A | (0.0000048) | 0.000621 | | 33.80 | 72.30 | 0.000453 | 0.000447 | 0.0187 | 0.000190 | 0.000081 | | 0.00128 | 0.15 |
| GSJ-JG-3 | (0.000008) | 0.000876 | | 31.45 | 67.29 | 0.000339 | 0.000140 | 0.0379 | 0.000070 | 0.000046 | | 0.000828 | 0.29 |
| UG-GSP-2 | | 0.00063 | | 31.1 | 66.6 | 0.0027 | | 0.0240 | | | | 0.0105 | 0.40 |
| VS-2125-81 | | 0.0013 | | | 64.08 | | 0.00080 | 0.048 | | | | | |

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| 编号 | TiO2 | Tl | Tm | U | V | W | Y | Yb | Zn | Zr |
|--------------|-------|------------|------------|----------|---------|------------|---------|----------|---------|--------|
| NIM-GBW07111 | 0.77 | 0.000039 | 0.000026 | 0.000140 | 0.0104 | 0.000019 | 0.00155 | 0.000156 | 0.00854 | 0.0224 |
| GSJ-JG-1 | 0.26 | 0.000103 | 0.000041 | 0.000347 | 0.00252 | (0.000158) | 0.00306 | 0.000247 | 0.00411 | 0.0111 |
| GSJ-JG-1A | 0.25 | 0.000098 | 0.000038 | 0.000469 | 0.00227 | 0.00124 | 0.00321 | 0.000270 | 0.00365 | 0.0118 |
| GSJ-JG-3 | 0.48 | (0.000040) | 0.000024 | 0.000221 | 0.00701 | (0.00141) | 0.00173 | 0.000177 | 0.00465 | 0.0144 |
| UG-GSP-2 | 0.66 | (0.00011) | (0.000029) | 0.000240 | 0.0052 | | 0.0028 | 0.00016 | 0.0120 | 0.0550 |
| VS-2125-81 | 0.517 | | | | 0.0090 | | | | 0.012 | 0.021 |

Gravel砾石

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| 编号 | 描述 | 种类 | Al ₂ O ₃ | CO ₂ | CaO | Co ₃ O ₄ | Cr ₂ O ₃ | Fe ₂ O ₃ | C | K ₂ O | MgO | Mn ₃ O ₄ | Na ₂ O | P ₂ O ₅ | S | 规格 |
|-----------|--------|----|--------------------------------|------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|-------|------------------|-------|--------------------------------|-------------------|-------------------------------|-------|------|
| DHSX36-09 | Gravel | RM | 1.46 | <0.025 | 0.047 | 0.005 | 0.029 | 0.706 | 0.48 | 0.334 | 0.104 | 0.020 | 0.045 | 0.019 | | 100g |
| DHSX36-10 | Gravel | RM | 0.234 | | 0.008 | | 0.030 | 0.419 | 0.153 | 0.014 | | 0.009 | <0.003 | | 0.009 | 100g |
| 编号 | | | SiO ₂ | TiO ₂ | V ₂ O ₅ | | | | | | | | | | | |
| DHSX36-09 | | | 96.35 | 0.086 | <0.006 | | | | | | | | | | | |
| DHSX36-10 | | | 98.80 | | | | | | | | | | | | | |

Greisen云英岩

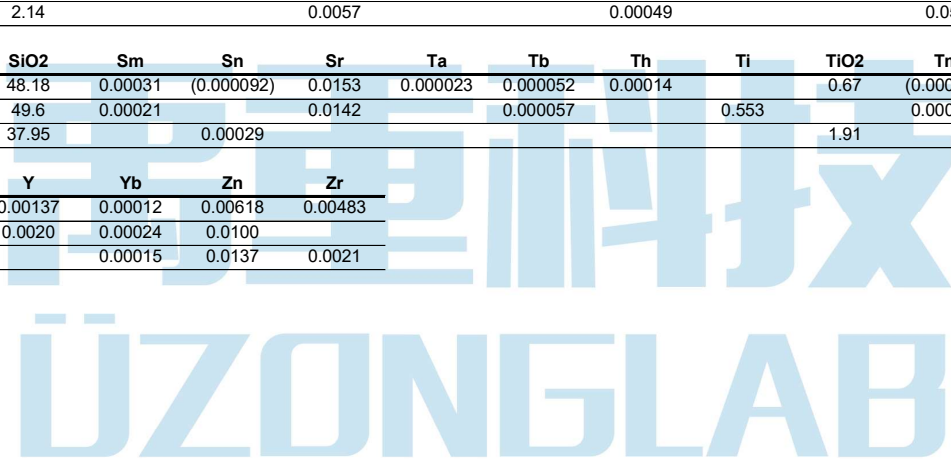
| 编号 | 描述 | 种类 | Ag | Al ₂ O ₃ | As | Au | B | Ba | Be | Bi | CO ₂ | CaO | Ce | Co | Cr | 规格 |
|-------|---------|-----|-------------------|--------------------------------|------------------|----------|--------------------------------|----------|-------------------------------|----------|------------------|----------|----------|------------------|----------|-----|
| Z GNA | Greisen | CRM | (0.0005) | 14.7 | 0.0007 | (0.0003) | (0.0010) | 0.0051 | (0.0009) | 0.0220 | (0.0006) | 0.62 | (0.0005) | (0.0009) | (0.0011) | 50g |
| 编号 | | | Cs | Dy | F | FeO | Fe ₂ O ₃ | Ga | Gd | Ge | H ₂ O | Hf | Ho | K ₂ O | La | |
| Z GNA | | | 0.0045 | 0.0003 | 3.32 | 3.81 | 5.92 | (0.0013) | (0.0004) | (0.0005) | (0.0011) | (0.0004) | (0.0003) | 2.63 | (0.0005) | |
| 编号 | | | Li ₂ O | LOI | MgO | MnO | Mo | Ni | P ₂ O ₅ | Pb | Rb | S | Sc | SiO ₂ | Sn | |
| Z GNA | | | 0.49 | (0.0005) | 0.034 | 0.168 | 0.0100 | (0.0008) | (0.0014) | (0.0012) | 0.202 | (0.0004) | (0.0009) | 71.47 | 0.19 | |
| 编号 | | | Ta | Th | TiO ₂ | Tm | U | V | W | Y | Yb | Zn | Zr | | | |
| Z GNA | | | 0.0029 | (0.0009) | 0.022 | (0.0003) | 0.0022 | (0.0005) | (0.0011) | (0.0007) | (0.0005) | 0.0078 | 0.0070 | | | |

Hornblendite角闪石岩

| 编号 | 描述 | 种类 | Al ₂ O ₃ | As | B | Ba | Be | Bi | C | CO ₂ | CaO | Cd | Ce | Co | Cr | 规格 |
|-------------|--------------|-----|--------------------------------|-----------|-----------|--------|------------|-------------|----------|-----------------|-------|----------|---------|---------|--------|------|
| GSJ-JH-1 | Hornblendite | CRM | 5.66 | (0.00010) | (0.00108) | 0.0106 | (0.000043) | (0.0000067) | (0.1630) | | 15.02 | | 0.00176 | 0.00515 | 0.0616 | 100g |
| NCS DC73377 | Hornblendite | CRM | 13.8 | 0.0025 | 0.0012 | 0.0062 | 0.000034 | | | (0.16) | 9.6 | 0.000014 | 0.00078 | 0.0052 | 0.0137 | 70g |

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| VS-2113-81 | Homblendite | CRM | 14.24 | 0.0099 | | | | | | | | | | 11.04 | 0.0074 | 0.0015 | 40g | |
|-------------|-------------|-----------|--------------|-----------|------------|-------------|------------|--------------|------------------|------------|-----------|-------------|-------------|-----------|--------|--------|-----|--|
| 编号 | Cs | Cu | Dy | Er | Eu | F | FeO | Fe2O3 | Fe (tot)* | Ga | Gd | GeO2 | H2O- | | | | | |
| GSJ-JH-1 | 0.00087 | 0.00086 | 0.00025 | 0.00012 | 0.000086 | | (8.09) | (1.39) | 10.27 | 0.00079 | (0.00027) | | (0.18) | | | | | |
| NCS DC73377 | 0.00019 | 0.0085 | 0.00035 | 0.00023 | 0.000092 | 0.0206 | 10.8 | | 14.8 | 0.00173 | 0.00027 | 0.000146 | | | | | | |
| VS-2113-81 | | 0.074 | | | | | 9.72 | | 18.26 | 0.0025 | | | | | | | | |
| 编号 | H2O+ | Hf | Hg | Ho | K2O | La | Li | LOI | Lu | MgO | Mn | MnO | Mo | | | | | |
| GSJ-JH-1 | (1.82) | 0.00014 | (0.00000019) | 0.000053 | 0.53 | 0.00079 | (0.00121) | | 0.000017 | 16.73 | | 0.19 | 0.000077 | | | | | |
| NCS DC73377 | (1.7) | 0.00015 | 0.000000032 | 0.000084 | 0.48 | 0.00029 | 0.0011 | 1.06 | 0.000038 | 7.2 | 0.1600 | | 0.000016 | | | | | |
| VS-2113-81 | | | | | 0.382 | | | | | 12.70 | | 0.144 | 0.00013 | | | | | |
| 编号 | Na2O | Nb | Nd | Ni | P | P2O5 | Pb | Pr | Rb | S | Sb | Sc | Se | | | | | |
| GSJ-JH-1 | 0.71 | 0.00042 | 0.00116 | 0.00582 | | | 0.099 | 0.00026 | (0.00023) | 0.00144 | (0.0567) | (0.0000067) | 0.00776 | | | | | |
| NCS DC73377 | 2.07 | 0.00027 | 0.00064 | 0.0119 | 0.0375 | | | | 0.000125 | 0.0030 | | | 0.0043 | 0.0000083 | | | | |
| VS-2113-81 | 2.14 | | | 0.0057 | | | 0.00049 | | | 0.054 | | | 0.0058 | | | | | |
| 编号 | SiO2 | Sm | Sn | Sr | Ta | Tb | Th | Ti | TiO2 | Tm | U | V | W | | | | | |
| GSJ-JH-1 | 48.18 | 0.00031 | (0.000092) | 0.0153 | 0.000023 | 0.000052 | 0.00014 | | 0.67 | (0.000019) | 0.000058 | 0.0228 | | | | | | |
| NCS DC73377 | 49.6 | 0.00021 | | 0.0142 | | 0.000057 | | 0.553 | | 0.000036 | | 0.0300 | 0.000034 | | | | | |
| VS-2113-81 | 37.95 | | 0.00029 | | | | | | 1.91 | | | 0.0039 | | | | | | |
| 编号 | Y | Yb | Zn | Zr | | | | | | | | | | | | | | |
| GSJ-JH-1 | 0.00137 | 0.00012 | 0.00618 | 0.00483 | | | | | | | | | | | | | | |
| NCS DC73377 | 0.0020 | 0.00024 | 0.0100 | | | | | | | | | | | | | | | |
| VS-2113-81 | | 0.00015 | 0.0137 | 0.0021 | | | | | | | | | | | | | | |



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Kimberlite 庆伯利岩

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | B | Ba | Be | Bi | CO2 | CaO | Cd | Ce | Cl | Co | 规格 |
|-------------|------------|-----|------------|---------|-----------|-----------|-------------|----------|-----------|---------|----------|-----------|------------|---------|----------|-----|
| NCS DC71312 | Kimberlite | CRM | (0.000006) | 3.73 | 0.00035 | (0.00318) | (0.0000177) | 0.00013 | (0.00001) | (16.78) | 12.64 | 0.000046 | 0.0127 | (0.04) | 0.00400 | 70g |
| VS-2114-81 | Kimberlite | CRM | | 2.66 | | | 0.025 | 0.00014 | | 5.71 | 6.42 | | | | 0.0073 | 40g |
| 编号 | | | Cr | Cs | Cu | Dy | Er | Eu | F | FeO | Fe2O3 | Fe (tot)* | Ga | Gd | Ge | |
| NCS DC71312 | | | 0.0795 | 0.00052 | 0.00262 | 0.00026 | (0.00012) | 0.00016 | (0.11) | 3.71 | | (6.53) | 0.00071 | 0.00047 | 0.000089 | |
| VS-2114-81 | | | 0.068 | | 0.0035 | | | | | 2.24 | 5.08 | 7.57 | 0.00068 | | | |
| 编号 | | | H2O+ | Hf | Hg | Ho | K2O | La | Li | LOI | Lu | MgO | Mn | MnO | Mo | |
| NCS DC71312 | | | (4.47) | 0.00049 | 0.0000010 | 0.000049 | 0.49 | 0.00698 | 0.00757 | 20.73 | 0.000016 | 17.56 | (0.09) | | 0.00014 | |
| VS-2114-81 | | | | | | | 0.412 | | | | | 26.96 | | 0.111 | 0.00013 | |
| 编号 | | | Na2O | Nb | Nd | Ni | P2O5 | Pb | Pr | Rb | S | SO3 | Sb | Sc | Se | |
| NCS DC71312 | | | (0.1) | 0.00604 | 0.00490 | 0.0516 | 0.30 | 0.00207 | 0.00138 | 0.00284 | | 0.68 | (0.000022) | 0.00109 | 0.000010 | |
| VS-2114-81 | | | 0.087 | 0.0038 | | 0.106 | 0.216 | 0.00062 | | | 0.032 | | | 0.00091 | | |
| 编号 | | | SiO2 | Sm | Sn | Sr | Ta | Tb | Th | TiO2 | Tm | U | V | W | Y | |
| NCS DC71312 | | | 35.88 | 0.00065 | 0.00017 | 0.0262 | 0.00039 | 0.000054 | 0.00108 | 0.71 | 0.000017 | 0.00022 | 0.0086 | 0.00024 | 0.00116 | |
| VS-2114-81 | | | 37.66 | | 0.00025 | 0.028 | | | | 0.97 | | | 0.0047 | | 0.00091 | |
| 编号 | | | Yb | Zn | Zr | | | | | | | | | | | |
| NCS DC71312 | | | 0.00011 | 0.0190 | 0.0182 | | | | | | | | | | | |
| VS-2114-81 | | | | 0.0063 | 0.0083 | | | | | | | | | | | |

Kinzingite 榴云岩

| 编号 | 描述 | 种类 | Al2O3 | Ba | CaO | Ce | Co | Cr | Cu | FeO | Fe2O3 | Ga | K2O | MgO | MnO | 规格 | |
|---------|------------|-----|--------|----------|--------|----------|----------|--------|--------|--------|----------|----------|--------|--------|--------|------|--|
| SARM 45 | Kinzingite | CRM | 26.22 | (0.0900) | 0.78 | (0.0100) | 0.0041 | 0.0256 | 0.0011 | (10.0) | 12.60 | (0.0035) | 3.18 | 3.39 | 0.10 | 100g | |
| 编号 | | | Na2O | Nb | Ni | P2O5 | Pb | Rb | SiO2 | Sr | Th | TiO2 | V | Y | Zn | | |
| SARM 45 | | | 0.84 | 0.0027 | 0.0080 | 0.08 | (0.0020) | 0.0142 | 49.62 | 0.0092 | (0.0021) | 1.82 | 0.0266 | 0.0063 | 0.0074 | | |
| 编号 | | | Zr | | | | | | | | | | | | | | |
| SARM 45 | | | 0.0322 | | | | | | | | | | | | | | |

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| | | | | | | | | | | | | | |
|-------------|-------|--------|-------|----------|--------|-----------|----------|-----------|--------|-------|----------|----------|----------|
| NCS DC70303 | 0.24 | 0.0232 | 0.030 | 0.000018 | 0.014 | 0.000034 | 0.000180 | (0.00041) | 0.0099 | 0.023 | 0.00014 | 0.000049 | 0.00006 |
| NCS DC70304 | 1.42 | 0.0031 | 0.004 | 0.000014 | 0.015 | 0.00003 | 0.000061 | 0.00505 | 0.0022 | 0.005 | 0.00017 | 0.000015 | 0.00016 |
| NCS DC70305 | 20.14 | 0.0093 | 0.012 | 0.000019 | 0.036 | 0.00004 | 0.000110 | 0.00029 | 0.0155 | 0.035 | 0.00029 | 0.000028 | 0.00026 |
| NCS DC70306 | 1.45 | 0.0689 | 0.089 | 0.000060 | 0.05 | 0.00010 | 0.000342 | 0.00066 | 0.0527 | 0.121 | 0.00056 | 0.000094 | 0.00106 |
| NCS DC70307 | 0.75 | 0.0095 | 0.011 | 0.000035 | 0.020 | 0.00009 | 0.000266 | 0.00048 | 0.0040 | 0.009 | 0.00040 | 0.000074 | 0.00012 |
| NCS DC70308 | 14.96 | 0.0209 | 0.027 | 0.000080 | 0.030 | 0.00004 | 0.000089 | 0.00056 | 0.0040 | 0.009 | 0.00078 | 0.000021 | 0.00011 |
| NCS DC70309 | 1.36 | 0.0318 | 0.041 | 0.000060 | 0.17 | 0.00065 | 0.00110 | 0.00192 | 0.0410 | 0.094 | 0.00059 | 0.000284 | 0.00192 |
| NCS DC70310 | 18.00 | 0.0209 | 0.027 | 0.000022 | 0.026 | 0.00002 | 0.000048 | 0.00016 | 0.0542 | 0.124 | 0.0156 | 0.000013 | 0.000034 |
| NCS DC73375 | 0.71 | 0.0030 | | 0.000018 | (0.03) | (0.00008) | 0.000195 | (0.0004) | 0.0057 | | (0.0005) | 0.000060 | 0.00040 |

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Limestone continued 石灰石

| 编号 | S | SO3 | Sb | Sc | Se | SiO2 | Sm | Sn | Sr | Ta | Tb | Te | Th |
|-------------|--------|--------|----------|-----------|-------------|-------|-----------|-----------|--------|------------|-----------|-----------|----------|
| NCS DC70301 | | 0.017 | 0.000008 | 0.000040 | 0.000014 | 0.55 | 0.000015 | (0.00007) | 0.0227 | (0.000006) | 0.0000022 | 0.0000008 | 0.000025 |
| NCS DC70302 | | 0.013 | 0.000009 | 0.00005 | 0.000015 | 0.72 | 0.000019 | (0.00006) | 0.0191 | 0.000005 | 0.0000031 | 0.0000008 | 0.000025 |
| NCS DC70303 | | 0.011 | 0.000015 | 0.000050 | 0.0000007 | 0.30 | 0.000038 | (0.00007) | 0.0087 | 0.000004 | 0.0000085 | 0.0000009 | 0.000054 |
| NCS DC70304 | | 0.014 | 0.000003 | 0.00004 | (0.0000016) | 1.08 | 0.000011 | (0.00005) | 0.0173 | 0.000003 | 0.0000020 | 0.0000009 | 0.000024 |
| NCS DC70305 | | 0.33 | 0.000006 | 0.00004 | 0.0000013 | 1.15 | 0.000026 | (0.00007) | 0.0158 | 0.000006 | 0.0000032 | 0.0000008 | 0.000045 |
| NCS DC70306 | | 0.98 | 0.000009 | 0.00011 | 0.0000018 | 6.27 | 0.000074 | (0.00006) | 0.0477 | 0.000011 | 0.000011 | 0.0000014 | 0.00013 |
| NCS DC70307 | | 0.058 | 0.000017 | 0.00019 | 0.0000087 | 1.28 | 0.000051 | (0.00005) | 0.0278 | 0.000011 | 0.000013 | 0.0000012 | 0.00026 |
| NCS DC70308 | | 0.041 | 0.000059 | 0.00005 | 0.000010 | 1.17 | 0.000021 | (0.00009) | 0.0085 | 0.0000030 | 0.0000035 | 0.0000016 | 0.000029 |
| NCS DC70309 | | 1.18 | 0.000027 | 0.00035 | 0.000024 | 11.07 | 0.000211 | (0.00011) | 0.0688 | 0.000045 | 0.000029 | 0.0000023 | 0.00019 |
| NCS DC70310 | | (0.01) | 0.000004 | 0.00003 | 0.0000019 | 8.25 | 0.0000090 | (0.00006) | 0.0243 | 0.0000030 | 0.0000016 | 0.0000007 | 0.000015 |
| NCS DC73375 | 0.0035 | | 0.000068 | (0.00007) | 0.0000021 | 6.65 | 0.000040 | (0.00005) | 0.0110 | (0.000005) | 0.0000054 | | 0.000086 |

| 编号 | Ti | TiO2 | Tl | Tm | U | V | W | Y | Yb | Zn | Zr |
|-------------|--------|-------|------------|-------------|----------|---------|----------|-----------|-----------|----------|----------|
| NCS DC70301 | 0.0066 | 0.011 | 0.0000022 | 0.0000018 | 0.000059 | 0.00048 | 0.000017 | 0.00012 | 0.000011 | 0.00081 | 0.00537 |
| NCS DC70302 | 0.0132 | 0.022 | 0.0000023 | 0.0000020 | 0.000039 | 0.00050 | 0.000018 | 0.00014 | 0.000013 | 0.00095 | 0.00768 |
| NCS DC70303 | 0.0042 | 0.007 | 0.000004 | 0.0000092 | 0.000066 | 0.00040 | 0.000013 | 0.00061 | 0.000068 | 0.00064 | 0.0443 |
| NCS DC70304 | 0.0042 | 0.007 | (0.000002) | 0.0000021 | 0.000017 | 0.00036 | 0.000013 | 0.00007 | 0.0000063 | 0.00033 | 0.00063 |
| NCS DC70305 | 0.0078 | 0.013 | 0.000004 | 0.0000017 | 0.000070 | 0.00051 | 0.000017 | 0.00011 | 0.000010 | 0.00036 | 0.00049 |
| NCS DC70306 | 0.0288 | 0.048 | 0.000007 | 0.0000052 | 0.000094 | 0.00088 | 0.000019 | 0.00031 | 0.000030 | 0.00137 | 0.00092 |
| NCS DC70307 | 0.0174 | 0.029 | 0.000003 | 0.000027 | 0.00034 | 0.00062 | 0.000018 | 0.00089 | 0.000262 | 0.00086 | 0.28 |
| NCS DC70308 | 0.0054 | 0.009 | 0.000002 | 0.0000030 | 0.000113 | 0.00075 | 0.000013 | 0.00018 | 0.000019 | 0.00357 | 0.0113 |
| NCS DC70309 | 0.258 | 0.430 | (0.000006) | 0.0000099 | 0.000104 | 0.00385 | 0.000025 | 0.00080 | 0.000060 | 0.00245 | 0.00470 |
| NCS DC70310 | 0.0016 | 0.003 | 0.0000014 | (0.0000021) | 0.000023 | 0.00029 | 0.000022 | 0.000042 | 0.0000043 | 0.00105 | 0.00052 |
| NCS DC73375 | 0.023 | | (0.000003) | 0.0000022 | 0.000023 | 0.00052 | 0.000013 | (0.00018) | 0.000015 | (0.0007) | (0.0011) |

Industrial and Geological reference materials 2013
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Limestone continued 石灰石

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | B | Ba | Be | Bi | CaCO3 | Cd | Ce | Co | Cr | Cu | 规格 |
|--------------|---------------------|-----|------------|-------|---------|---------|--------|----------|----------|-------|------------|---------|---------|---------|---------|-----|
| NIM-GBW07712 | Synthetic limestone | CRM | (0.000030) | 1.1 | 0.00022 | 0.00022 | 0.0024 | 0.000022 | 0.000023 | 85 | (0.000023) | 0.00028 | 0.00023 | 0.00023 | 0.00022 | 70g |
| NIM-GBW07713 | Synthetic limestone | CRM | 0.000060 | 1.1 | 0.00052 | 0.0005 | 0.0054 | 0.000052 | 0.000053 | 85 | 0.000053 | 0.00058 | 0.00053 | 0.00053 | 0.00052 | 70g |
| NIM-GBW07714 | Synthetic limestone | CRM | 0.000011 | 1.1 | 0.00102 | 0.0010 | 0.0104 | 0.00010 | 0.00010 | 85 | 0.000010 | 0.0011 | 0.00103 | 0.00103 | 0.00102 | 70g |
| NIM-GBW07715 | Synthetic limestone | CRM | 0.000021 | 1.1 | 0.0020 | 0.0020 | 0.0204 | 0.00020 | 0.00020 | 85 | 0.000020 | 0.0021 | 0.00203 | 0.00203 | 0.0020 | 70g |
| NIM-GBW07716 | Synthetic limestone | CRM | 0.000051 | 1.1 | 0.0050 | 0.0050 | 0.0504 | 0.00050 | 0.00050 | 85 | 0.000050 | 0.0051 | 0.0050 | 0.0050 | 0.0050 | 70g |
| NIM-GBW07717 | Synthetic limestone | CRM | 0.00010 | 1.1 | 0.0100 | 0.0100 | 0.1000 | 0.0010 | 0.0010 | 85 | 0.00010 | 0.0101 | 0.0100 | 0.0100 | 0.0100 | 70g |
| NIM-GBW07718 | Synthetic limestone | CRM | 0.00020 | 1.1 | 0.0200 | 0.0200 | 0.2000 | 0.0020 | 0.0020 | 85 | 0.00020 | 0.0200 | 0.0200 | 0.0200 | 0.0200 | 70g |
| NIM-GBW07719 | Synthetic limestone | CRM | 0.00050 | 1.1 | 0.0500 | 0.0500 | 0.5000 | 0.0050 | 0.0050 | 85 | 0.00050 | 0.0500 | | | 0.0500 | 70g |
| NIM-GBW07720 | Synthetic limestone | CRM | 0.0010 | 1.1 | | | | 0.0100 | 0.0100 | 85 | 0.0010 | | | | 0.1000 | 70g |

| 编号 | Cu | Fe2O3 | Ga | K2SO4 | La | Li | MgCO3 | Mn | Mo | Na2SO4 | Nb | Ni | Pb |
|--------------|---------|-------|---------|-------|---------|---------|-------|--------|----------|--------|---------|---------|---------|
| NIM-GBW07712 | 0.00022 | 0.3 | 0.00028 | 0.2 | 0.00026 | 0.00032 | 8 | 0.0037 | 0.000021 | 0.2 | 0.00025 | 0.00021 | 0.00024 |
| NIM-GBW07713 | 0.00052 | 0.3 | 0.00058 | 0.2 | 0.00056 | 0.00062 | 8 | 0.0067 | 0.000051 | 0.2 | 0.00055 | 0.00051 | 0.00054 |
| NIM-GBW07714 | 0.00102 | 0.3 | 0.00108 | 0.2 | 0.00106 | 0.00112 | 8 | 0.0117 | 0.00010 | 0.2 | 0.00105 | 0.0010 | 0.00104 |
| NIM-GBW07715 | 0.0020 | 0.3 | 0.00208 | 0.2 | 0.00206 | 0.0021 | 8 | 0.0217 | 0.00020 | 0.2 | 0.00205 | 0.0020 | 0.00204 |
| NIM-GBW07716 | 0.0050 | 0.3 | 0.0051 | 0.2 | 0.00506 | 0.0051 | 8 | 0.0517 | 0.00050 | 0.2 | 0.00505 | 0.0050 | 0.0050 |
| NIM-GBW07717 | 0.0100 | 0.3 | 0.0101 | 0.2 | 0.0101 | 0.0101 | 8 | 0.1020 | 0.0010 | 0.2 | 0.0100 | 0.0100 | 0.0100 |
| NIM-GBW07718 | 0.0200 | 0.3 | 0.0200 | 0.2 | 0.0200 | 0.0200 | 8 | 0.2020 | 0.0020 | 0.2 | 0.0200 | 0.0200 | 0.0200 |
| NIM-GBW07719 | 0.0500 | 0.3 | | 0.2 | | 0.0500 | 8 | 0.5000 | 0.0050 | 0.2 | | 0.0500 | 0.0500 |
| NIM-GBW07720 | 0.1000 | 0.3 | | 0.2 | | | 8 | 1.0000 | 0.0100 | 0.2 | | | 0.1000 |

| 编号 | Sb | SiO2 | Sn | Sr | Ti | V | W | Y | Yb | Zn | Zr |
|--------------|----------|------|----------|--------|--------|---------|----------|---------|----------|---------|---------|
| NIM-GBW07712 | 0.000021 | 5.2 | 0.000028 | 0.0170 | 0.0031 | 0.00032 | 0.000022 | 0.00021 | 0.000022 | 0.00030 | 0.00040 |
| NIM-GBW07713 | 0.000051 | 5.2 | 0.000058 | 0.0200 | 0.0061 | 0.00062 | 0.000052 | 0.00051 | 0.000052 | 0.00060 | 0.00070 |
| NIM-GBW07714 | 0.00010 | 5.2 | 0.00011 | 0.0250 | 0.0111 | 0.00112 | 0.00010 | 0.0010 | 0.00010 | 0.0011 | 0.0012 |
| NIM-GBW07715 | 0.00020 | 5.2 | 0.00021 | 0.0350 | 0.0210 | 0.0021 | 0.00020 | 0.0020 | 0.00020 | 0.0021 | 0.0022 |
| NIM-GBW07716 | 0.00050 | 5.2 | 0.00051 | 0.0650 | 0.0510 | 0.0051 | 0.00050 | 0.0050 | 0.00050 | 0.0051 | 0.0052 |
| NIM-GBW07717 | 0.0010 | 5.2 | 0.0010 | 0.1150 | 0.1010 | 0.0101 | 0.0010 | 0.0100 | 0.0010 | 0.0101 | 0.0102 |
| NIM-GBW07718 | 0.0020 | 5.2 | 0.0020 | 0.2200 | 0.2000 | 0.200 | 0.0020 | 0.0200 | 0.0020 | 0.0200 | 0.0202 |
| NIM-GBW07719 | 0.0050 | 5.2 | 0.0050 | 0.5200 | 0.5000 | 0.500 | 0.0050 | | 0.0050 | 0.0500 | 0.0500 |
| NIM-GBW07720 | 0.0100 | 5.2 | 0.0100 | | | | 0.0100 | | 0.0100 | 0.1000 | |

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Limestone continued 石灰石

| 编号 | 描述 | 种类 | Ag (ppm) | Al2O3 | As | Au (ppm) | B | Ba | Be | Bi | Br | C | C (org) | CO2 | CaO | 规格 |
|--------------|-----------|-----|-----------|-------------|-------------|-------------|----------|-------------|------------|------------|------------|------------|-------------|-----------|-----------|------|
| GSJ-JDO-1 | Limestone | CRM | (0.0019) | 0.0174 | (0.0000114) | (0.00009) | | 0.000614 | | | (0.000079) | (12.7600) | | 46.50 | 33.96 | 100g |
| GSJ-JLS-1 | Limestone | CRM | (0.0013) | 0.0207 | (0.0000145) | (0.0000667) | | 0.0476 | | | | (11.9800) | | 43.58 | 55.09 | 20g |
| NIM-GBW07108 | Limestone | CRM | 0.043 | 5.03 | 0.00047 | (0.00094) | 0.0016 | 0.0120 | 0.00008 | 0.000016 | | 9.0 | (0.11) | 32.4 | 35.67 | 70g |
| NIM-GBW07114 | Limestone | CRM | 0.04 | 0.10 | 0.000023 | | 0.00205 | 0.00443 | (0.000022) | 0.000003 | 0.000084 | (12.88) | | 46.77 | 30.02 | 70g |
| 编号 | | | Cd | Ce | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | F | FeO | Fe2O3 | |
| GSJ-JDO-1 | | | 0.0000644 | 0.000249 | | 0.0000168 | 0.000793 | (0.0000070) | 0.000141 | 0.0000814 | | 0.0000176 | 0.0246 | (0.071) | 0.0246 | |
| GSJ-JLS-1 | | | 0.0000159 | 0.0000521 | | 0.00000825 | 0.000337 | 0.00000201 | 0.0000268 | 0.00000283 | | 0.00000072 | 0.00575 | | 0.0178 | |
| NIM-GBW07108 | | | 0.000007 | 0.0025 | 0.0078 | 0.0009 | 0.0032 | 0.00032 | 0.0023 | 0.00016 | 0.00010 | 0.000051 | 0.0406 | 1.64 | | |
| NIM-GBW07114 | | | 0.000007 | 0.000358 | 0.012 | 0.000388 | 0.00026 | 0.000007 | 0.00302 | 0.000019 | 0.000009 | 0.000005 | 0.014 | 0.15 | 0.04 | |
| 编号 | | | Fe (tot)* | Ga | Gd | Ge | H2O | H2O+ | Hf (ppm) | Hg (ppm) | Ho | I | In | K2O | La | |
| GSJ-JDO-1 | | | 0.0208 | | (0.00013) | | 0.145 | 0.395 | (0.0897) | (0.0095) | (0.000042) | | | 0.00232 | 0.000793 | |
| GSJ-JLS-1 | | | 0.0168 | | (0.0000030) | | 0.105 | (0.140) | 0.126 | (0.0056) | | | | 0.00297 | 0.0000153 | |
| NIM-GBW07108 | | | 2.52 | 0.00071 | 0.00019 | 0.000067 | | (2.12) | 1.8 | 0.016 | 0.000033 | 0.000023 | (0.000004) | 0.78 | 0.0015 | |
| NIM-GBW07114 | | | | (0.0000021) | 0.000018 | 0.000015 | (0.34) | | (0.10) | (0.004) | 0.000004 | 0.000023 | (0.0000066) | 0.038 | 0.000134 | |
| 编号 | | | Li | LOI | Lu | MgO | Mn | MnO | Mo | N | Na2O | Nb | Nd | Ni | P | |
| GSJ-JDO-1 | | | (0.00004) | | 0.00000494 | 18.47 | | 0.00657 | (0.000078) | | 0.0129 | (0.00004) | 0.000525 | 0.000290 | | |
| GSJ-JLS-1 | | | (0.00002) | | 0.00000220 | 0.606 | | 0.00209 | | | 0.00194 | (0.00010) | (0.0000136) | 0.0000362 | | |
| NIM-GBW07108 | | | 0.0020 | 34.1 | 0.000014 | 5.19 | 0.0434 | | 0.000038 | (0.0170) | (0.08) | 0.00066 | 0.00120 | 0.0018 | 0.0226 | |
| NIM-GBW07114 | | | 0.000230 | | 0.0000019 | 21.8 | | 0.010 | (0.000024) | | (0.03) | (0.000277) | 0.000139 | 0.0241 | | |
| 编号 | | | P2O5 | Pb | Pd (ppb) | Pr | Pt (ppb) | Rb | S | Sb (ppm) | Sc | Se (ppm) | SiO2 | Sm | Sn | |
| GSJ-JDO-1 | | | 0.0343 | (0.000095) | (<0.2) | 0.0000956 | (<0.5) | (0.000175) | (0.00905) | (0.036) | 0.0000136 | (0.0468) | 0.216 | 0.0000788 | | |
| GSJ-JLS-1 | | | 0.0295 | (0.00007) | (<0.2) | (0.0000032) | (<0.5) | (0.000018) | 0.0123 | (0.0166) | 0.00000307 | | 0.120 | 0.0000135 | | |

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|--------------|-------|------------|--|------------|--|------------|----------|------|-----------|------|-------|----------|------------|
| NIM-GBW07108 | | 0.0018 | | 0.00034 | | 0.0032 | (0.0370) | 0.43 | 0.00060 | 0.09 | 15.60 | 0.00024 | (0.000098) |
| NIM-GBW07114 | 0.006 | (0.000444) | | (0.000044) | | (0.000142) | 0.011 | 0.04 | 0.0000098 | 0.08 | 0.62 | 0.000025 | 0.000053 |

| 编号 | Sr | Ta | Tb | Te | Th | Ti | TiO2 | Tl | Tm | U | V | W | Y |
|--------------|---------|-------------|--------------|-------------|------------|--------|-----------|-------------|-------------|-----------|----------|----------|------------|
| GSJ-JDO-1 | 0.0116 | (0.0000009) | 0.0000116 | | 0.00000429 | | (0.00133) | (0.0000003) | (0.0000059) | 0.0000858 | 0.000314 | | 0.00103 |
| GSJ-JLS-1 | 0.0295 | (0.0000014) | (0.00000041) | | 0.00000287 | | (0.0020) | (0.0000003) | | 0.000175 | 0.000359 | | 0.0000223 |
| NIM-GBW07108 | 0.0913 | 0.000042 | 0.000035 | (0.0000024) | 0.00041 | 0.1960 | | 0.000033 | 0.000017 | 0.00019 | 0.0036 | 0.000067 | 0.00091 |
| NIM-GBW07114 | 0.00270 | (0.000018) | 0.000005 | (0.0000012) | 0.000011 | | 0.015 | (0.0000070) | (0.0000040) | 0.000016 | 0.000210 | 0.000011 | (0.000140) |

| 编号 | Yb | Zn | Zr |
|--------------|------------|----------|------------|
| GSJ-JDO-1 | 0.0000323 | 0.00354 | 0.000621 |
| GSJ-JLS-1 | 0.00000164 | 0.000319 | (0.000419) |
| NIM-GBW07108 | 0.000090 | 0.0052 | 0.0062 |
| NIM-GBW07114 | 0.000009 | 0.00117 | 0.00030 |



Limestone continued 石灰石

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | B | Ba | BaO | Be | Bi | C | CO2 | CaO | Cd | Ce | 规格 |
|---------|-----------|-----|-----------|-------|-----------|----------|----------|--------|-----------|-----------|-------|------|-------|-----------|----------|-----|
| NIST-1D | Limestone | CRM | | 0.526 | | | | 0.0033 | (0.00001) | | 11.50 | | 52.85 | (0.00003) | (0.0004) | 70g |
| UL CCH1 | Limestone | CRM | (<0.0001) | 0.32 | (0.00013) | (0.0010) | 0.0026 | | (<0.0004) | (<0.0005) | | | 52.05 | | 0.00037 | 50g |
| Z KH | Limestone | CRM | | 2.39 | | (0.0040) | 0.0050 | | | | | 37.6 | 47.8 | | (0.0020) | 50g |
| Z KH2 | Limestone | CRM | | 2.35 | | | (0.0050) | | | | | 37.5 | 47.6 | | 0.00181 | 50g |

| 编号 | Cl | Co | Cr | Cr2O3 | Cs | Cu | Dy | Er | Eu | F | FeO | Fe2O3 | Fe (tot)* |
|---------|----------|-----------|-----------|--------|------------|-----------|------------|-----------|-----------|----------|------|--------|-----------|
| NIST-1D | (0.0130) | | | 0.0012 | (0.00004) | | (0.00006) | (0.00004) | (0.00001) | (0.0160) | | 0.3191 | |
| UL CCH1 | (0.0370) | 0.000023 | (0.00054) | | (0.000013) | (<0.0010) | (0.000027) | | 0.000017 | (0.0367) | | | 0.18 |
| Z KH | | 0.00053 | 0.0015 | | 0.00014 | 0.0010 | | | | 0.057 | 0.33 | 0.92 | |
| Z KH2 | | (0.00062) | (0.00151) | | 0.00122 | 0.0012 | | | 0.000047 | (0.0605) | 0.31 | | 0.86 |

| 编号 | Ga | Gd | Ge | H2O | H2O+ | Hf | Ho | In | K2O | La | Li | LOI | Lu |
|---------|-----------|------------|-----------|--------|--------|----------|-----------|-----------|--------|----------|-----------|-------|-----------|
| NIST-1D | (0.0001) | (0.00005) | | | | | (0.00001) | | 0.1358 | (0.0004) | | 41.57 | |
| UL CCH1 | (<0.0004) | (0.000038) | (<0.0010) | | | 0.000011 | (0.00004) | (<0.0005) | 0.08 | 0.00050 | | 43.20 | 0.000003 |
| Z KH | (0.0003) | | | | (1.00) | 0.000078 | | | 0.41 | (0.0013) | 0.00086 | | 0.000012 |
| Z KH2 | | | | (1.26) | | | | | 0.44 | | (0.00157) | 38.7 | 0.0000127 |

| 编号 | MgO | Mn | MnO | Mo | Na2O | Nb | Nd | Ni | P2O5 | Pb | Pr | Rb | S |
|---------|-------|--------|-------|-----------|----------|-----------|----------|----------|--------|----------|-----------|-----------|--------|
| NIST-1D | 0.301 | 0.0209 | | | 0.0109 | (0.00007) | (0.0003) | (0.0004) | 0.0413 | | (0.00006) | (0.0006) | 0.1028 |
| UL CCH1 | 2.71 | | 0.01 | (<0.0005) | 0.05 | | 0.00042 | 0.0011 | 0.05 | 0.0006 | | (0.00026) | 0.1283 |
| Z KH | 0.74 | | 0.088 | | (0.1300) | | | 0.0020 | 0.121 | (0.0008) | | 0.0025 | |

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|-------|------|-------|------|----------|------|-----------|-----------|
| Z KH2 | 0.67 | 0.084 | 0.11 | (0.0028) | 0.12 | (0.00054) | (0.00186) |
|-------|------|-------|------|----------|------|-----------|-----------|

| 编号 | Sb | Sc | SiO2 | Sm | Sn | Sr | SrO | Ta | Tb | Th | TiO2 | U | V |
|---------|------------|----------|-------|-----------|-----------|----------|--------|------------|------------|------------|--------|------------|----------|
| NIST-1D | | | 4.080 | (0.00005) | (0.0001) | | 0.0303 | | (0.000009) | (0.00005) | 0.0306 | (0.0001) | (0.0010) |
| UL CCH1 | (0.000025) | 0.000045 | 0.95 | 0.000077 | (<0.0005) | 0.0267 | | (0.000003) | 0.000011 | 0.000030 | 0.02 | 0.00039 | 0.0027 |
| Z KH | (0.000018) | 0.0030 | 8.60 | 0.00022 | | 0.0545 | | 0.000019 | | 0.00026 | 0.130 | | 0.0024 |
| Z KH2 | | 0.000283 | 8.67 | | | (0.0537) | | | | (0.000176) | 0.130 | (0.000111) | (0.0027) |

| 编号 | Y | Yb | Zn | ZnO | Zr |
|---------|----------|-----------|--------|--------|----------|
| NIST-1D | (0.0005) | (0.00003) | | 0.0022 | |
| UL CCH1 | (0.0007) | 0.000024 | 0.0029 | | (0.0035) |
| Z KH | | 0.000086 | 0.0022 | | 0.0035 |
| Z KH2 | | | 0.0024 | | |



Limestone continued 石灰石

| 编号 | 描述 | 种类 | Al2O3 | CaO | Fe2O3 | K2O | LOI | MgO | MnO | Mn3O4 | Na2O | P | P2O5 | S | SO3 | 规格 |
|-----------------|-----------|-----|-------|-------|-------|-------|-------|-------|--------|-------|---------|--------|--------|--------|-------|------|
| DH-SX35-14 | Limestone | RM | 0.483 | 51.49 | 0.422 | 0.075 | | 2.161 | 0.020 | | 0.042 | | 0.034 | | 0.197 | 100g |
| DH-SX35-15 | Limestone | RM | 0.787 | 48.91 | 1.293 | 0.187 | | 0.379 | 0.028 | | 0.032 | | 0.036 | | 0.055 | 100g |
| DK 1A | Limestone | CRM | 0.05 | 55.4 | 0.04 | 0.01 | 43.3 | 0.39 | | 0.01 | 0.01 | | | | 0.02 | 60g |
| DK 1B | Limestone | CRM | 3.20 | 43.6 | 1.25 | 0.96 | 37.7 | 3.00 | | 0.02 | 0.13 | | | | 0.13 | 60g |
| BAS-BCS-CRM 393 | Limestone | CRM | 0.12 | 55.4 | 0.045 | 0.02 | 43.4 | 0.15 | 0.01 | | (<0.03) | | (0.01) | 0.007 | | 100g |
| NIM-GBW07214A | Limestone | CRM | 0.093 | 55.34 | 0.085 | 0.020 | 43.61 | 0.29 | 0.0050 | 0.085 | (0.007) | 0.0011 | | 0.043 | | 50g |
| IPT-122 | Limestone | CRM | 1.24 | 32 | 0.65 | 0.43 | 43.3 | 17.5 | 0.042 | | 0.019 | | 0.048 | | | 80g |
| NCS DC14017A | Limestone | CRM | 0.51 | 53.93 | | 0.093 | | 0.56 | 0.014 | | 0.020 | 0.013 | | 0.201 | | 70g |
| NCS DC15003 | Limestone | CRM | 0.21 | 54.31 | 0.31 | | 43.48 | 0.68 | 0.016 | | | 0.0018 | | | | 60g |
| NCS DC16003 | Limestone | CRM | 0.39 | 53.46 | 0.21 | | 43.07 | 0.99 | | | | 0.003 | | 0.089 | | 50g |
| NCS DC16006 | Limestone | CRM | 0.885 | 65.20 | 0.46 | 0.19 | 25.06 | 4.55 | 0.013 | | 0.021 | 0.0054 | | 0.101 | | 25g |
| NCS DC62002B | Limestone | CRM | 1.07 | 50.87 | 0.48 | 0.45 | 40.99 | 1.03 | | | 0.06 | | | | 0.05 | 20g |
| NCS DC62002C | Limestone | CRM | 1.74 | 49.36 | 0.81 | 0.84 | 39.43 | 0.71 | | | 0.06 | | | | 0.04 | 20g |
| VB K2 | Limestone | CRM | 3.93 | 43.19 | 1.39 | 0.82 | 35.61 | 0.65 | 0.025 | | 0.064 | | | | 0.22 | 100g |
| VS-K4/4 | Limestone | CRM | 0.47 | 31.2 | 0.56 | | | 20.1 | 0.034 | | | | | | | 100g |
| VS-W10 | Limestone | CRM | 0.012 | 55.8 | | | | 0.32 | | | | 0.0035 | | 0.0053 | | 75g |

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| 编号 | SiO ₂ | SrO | TiO ₂ |
|-----------------|------------------|-------|------------------|
| DH-SX35-14 | 2.533 | 0.030 | 0.023 |
| DH-SX35-15 | 8.75 | 0.050 | 0.048 |
| DK 1A | 0.64 | | <0.01 |
| DK 1B | 9.5 | | 0.15 |
| BAS-BCS-CRM 393 | 0.70 | 0.019 | 0.009 |
| NIM-GBW07214A | 0.22 | | |
| IPT-122 | 4.3 | 0.018 | 0.06 |
| NCS DC14017A | 1.13 | | |
| NCS DC15003 | 0.34 | | |
| NCS DC16003 | 1.29 | | |
| NCS DC16006 | 3.72 | | |
| NCS DC62002B | 4.55 | | 0.06 |
| NCS DC62002C | 6.61 | | 0.08 |
| VB K2 | 13.38 | | (0.21) |
| VS-K4/4 | 0.96 | | |
| VS-W10 | 0.050 | | |



Limestone continued 石灰石

| 编号 | 描述 | 种类 | Al ₂ O ₃ | CO ₂ | CaO | Cl | Cr | Cu | Fe ₂ O ₃ | H ₂ O (900°C) | K ₂ O | LOI | MgO | MnO | Na ₂ O | 规格 |
|---------------|-----------|-----|--------------------------------|-----------------|-------|--------|----------|-----------|--------------------------------|--------------------------|------------------|-------|-------|--------|-------------------|------|
| NCS DC60107A | Limestone | CRM | 0.24 | (43.12) | 54.03 | 0.0028 | | | 0.11 | | 0.084 | 43.12 | 0.81 | 0.0067 | 0.017 | 50g |
| NCS DC60108A | Limestone | CRM | 0.33 | (42.59) | 51.61 | 0.0066 | | | 0.17 | | 0.17 | 42.84 | 2.25 | 0.0089 | 0.017 | 50g |
| NIM-GBW03105A | Limestone | CRM | 0.24 | (43.12) | 54.03 | 0.0028 | | | 0.11 | | 0.084 | 43.12 | 0.81 | 0.0067 | 0.017 | 50g |
| VB K1 | Limestone | CRM | 0.11 | (43.54) | 54.58 | | (0.0025) | (0.00055) | 0.097 | | (0.028) | 43.70 | 0.72 | 0.0095 | 0.020 | 100g |
| DH-SX35-13 | Limestone | RM | 0.097 | 43.80 | 55.06 | | | | 0.082 | 0.099 | 0.029 | | 0.466 | 0.017 | 0.003 | 100g |

| 编号 | P ₂ O ₅ | SO ₃ | SiO ₂ | SrO | TiO ₂ |
|---------------|-------------------------------|-----------------|------------------|-----|------------------|
| NCS DC60107A | 0.0081 | 0.018 | 1.09 | | 0.010 |
| NCS DC60108A | 0.0061 | 0.016 | 2.09 | | 0.015 |
| NIM-GBW03105A | 0.0081 | 0.018 | 1.09 | | 0.010 |
| VB K1 | (0.016) | (0.051) | 0.44 | | (0.011) |

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| | | | | | |
|------------|-------|-------|-------|-------|-------|
| DH-SX35-13 | 0.007 | 0.012 | 0.289 | 0.019 | 0.006 |
|------------|-------|-------|-------|-------|-------|

| 编号 | 描述 | 种类 | Al2O3 | As | B | Ba | BaO | Be | C | C (org) | CO2 | CaO | Cd | Ce | Co | 规格 |
|-----------------|-----------|-----|-------|----------|---------|-------|--------|----------|--------|---------|------|-------|----------|--------|---------|------|
| BAS-BCS-CRM 513 | Limestone | CRM | 0.108 | (<0.001) | | | (0.01) | | (11.9) | | | 55.59 | (<0.001) | | | 100g |
| VS-3192-89 | Limestone | CRM | 5.48 | | | 0.04 | | | | | | 21.56 | | 0.0027 | 0.0012 | 100g |
| VS-3193-85 | Limestone | CRM | 1.87 | | (0.001) | 0.006 | | (0.0001) | | | | 38.5 | | 0.0018 | 0.00022 | 100g |
| VS-3193-89 | Limestone | CRM | 1.89 | | | 0.005 | | | | | | 38.46 | | 0.0016 | 0.00023 | 100g |
| VS-813-89 | Limestone | CRM | 0.43 | | 0.0005 | 0.003 | | 0.00013 | | | 45.6 | 29.48 | | | 0.00030 | 100g |
| Z KH3 | Limestone | CRM | 2.40 | | | | | | | (0.14) | 37.6 | 47.6 | | | | 50g |

| 编号 | Cr | Cr2O3 | Cs | Cu | F | FeO | Fe2O3 | Fe (tot)* | H2O | K2O | La | Li | Li2O |
|-----------------|--------|--------|-----------|--------|---------|------|--------|-----------|-------|--------|----------|-------|----------|
| BAS-BCS-CRM 513 | | 0.0012 | | | (0.002) | | 0.0275 | | | 0.0150 | | | |
| VS-3192-89 | 0.0030 | | | 0.0029 | | 1.8 | | 3.15 | | 2.75 | 0.0013 | 0.004 | |
| VS-3193-85 | 0.0013 | | (0.00007) | 0.0004 | | 1.89 | | 2.48 | | 0.49 | (0.0007) | | |
| VS-3193-89 | 0.0009 | | | 0.0004 | | 1.8 | | 2.43 | | 0.49 | 0.0008 | | |
| VS-813-89 | 0.0006 | | | 0.0008 | 0.02 | 0.36 | 0.47 | | 0.4 | 0.35 | | | |
| Z KH3 | | | | | (0.061) | 0.32 | 0.87 | | (1.4) | 0.43 | | | (0.0021) |

| 编号 | LOI | Lu | MgO | MnO | Mo | Na2O | Nb | Ni | P2O5 | Pb | Rb | S | SO3 |
|-----------------|-------|-----------|-------|--------|---------|--------|----------|----------|---------|--------|--------|--------|-------|
| BAS-BCS-CRM 513 | 43.61 | | 0.182 | 0.0093 | | (<0.3) | | (<0.001) | (0.005) | 0.0009 | | 0.0097 | |
| VS-3192-89 | | | 12.89 | 0.30 | 0.00008 | 1.38 | 0.0037 | 0.0018 | 0.060 | 0.0013 | 0.0057 | | |
| VS-3193-85 | | (0.00001) | 6.04 | 0.28 | | 0.48 | (0.0008) | 0.0007 | 0.027 | 0.0016 | 0.0015 | | |
| VS-3193-89 | | | 5.97 | 0.28 | | 0.46 | 0.0007 | 0.0005 | 0.030 | 0.0010 | 0.0015 | | |
| VS-813-89 | | | 20.75 | 0.050 | | 0.07 | | 0.0005 | 0.011 | 0.0008 | 0.0005 | 0.02 | |
| Z KH3 | 38.6 | | 0.65 | 0.080 | | 0.10 | | | 0.117 | | | 0.09 | (0.2) |

| 编号 | Sc | SiO2 | Sn | Sr | SrO | Th | Ti | TiO2 | U | V | Y | Yb | Zn | Zr |
|-----------------|----------|-------|---------|--------|--------|----------|--------|-------|----------|--------|----------|----------|--------|--------|
| BAS-BCS-CRM 513 | | 0.228 | | | 0.0176 | | 0.0025 | | | | | | 0.0014 | |
| VS-3192-89 | 0.0008 | 19.92 | 0.00017 | 0.0044 | | 0.0015 | | 0.28 | 0.00008 | 0.0022 | | 0.00025 | 0.003 | 0.007 |
| VS-3193-85 | (0.0002) | 12.35 | | 0.05 | | (0.0002) | | 0.09 | (0.0001) | 0.0024 | (0.0009) | (0.0001) | 0.0025 | 0.0026 |
| VS-3193-89 | 0.00022 | 12.40 | | 0.044 | | 0.00018 | | 0.093 | 0.00010 | | | 0.00009 | 0.003 | 0.0027 |
| VS-813-89 | | 2.69 | | 0.009 | | 0.00010 | | 0.025 | 0.00015 | 0.0025 | | | 0.003 | 0.0030 |
| Z KH3 | | 8.59 | | | | | | 0.130 | | | | | | |

Lujavrite正长石

| 编号 | 描述 | 种类 | Al2O3 | Ba | Be | CaO | Co | Cr | Cu | F | FeO | Fe2O3 | Ga | Ge | K2O | 规格 |
|------------|-----------|-----|-------|-------|---------|------|---------|---------|---------|------|------|-------|--------|---------|------|------|
| SARM 3 | Lujavrite | CRM | 13.64 | | | 3.22 | | | | 0.44 | 1.13 | 8.78 | | | 5.51 | 100g |
| VS-2124-81 | Lujavrite | CRM | 16.96 | 0.080 | 0.00139 | 1.25 | 0.00063 | 0.00125 | 0.00111 | | 1.14 | 5.52 | 0.0063 | 0.00013 | 6.23 | 40g |

| 编号 | La | Li | MgO | MnO | Mo | Na2O | Nb | Ni | Pb | Rb | SiO2 | Sn | Sr |
|------------|-------|--------|------|-------|---------|------|-------|---------|--------|--------|-------|--------|-------|
| SARM 3 | | | 0.28 | 0.77 | | 8.37 | | | | | 52.40 | | |
| VS-2124-81 | 0.040 | 0.0037 | 0.74 | 0.254 | 0.00028 | 9.26 | 0.034 | 0.00078 | 0.0020 | 0.0250 | 56.13 | 0.0014 | 0.080 |

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| 编号 | TiO ₂ | V | Y | Yb | Zn |
|------------|------------------|--------|--------|---------|-------|
| SARM 3 | 0.48 | | | | |
| VS-2124-81 | 0.92 | 0.0086 | 0.0081 | 0.00057 | 0.012 |

Maripolite钠柱石

| 编号 | 描述 | 种类 | Al ₂ O ₃ | Ba | Be | CO ₂ | CaO | Cr | Cu | FeO | Fe ₂ O ₃ | Ga | Ge | K ₂ O | La | 规格 |
|------------|------------|-----|--------------------------------|--------|---------|-------------------|-------|---------|--------|-------|--------------------------------|--------|---------|------------------|--------|-----|
| VS-2122-81 | Maripolite | CRM | 21.96 | 0.017 | 0.0086 | 0.72 | 1.20 | 0.00098 | 0.0021 | 0.88 | 2.05 | 0.0080 | 0.00014 | 4.30 | 0.013 | 40g |
| 编号 | | | Li | MnO | Mo | Na ₂ O | Nb | Ni | Pb | Rb | SiO ₂ | Sn | Sr | TiO ₂ | V | |
| VS-2122-81 | | | 0.00043 | 0.085 | 0.00052 | 10.79 | 0.034 | 0.00065 | 0.0025 | 0.030 | 56.29 | 0.0015 | 0.012 | 0.045 | 0.0013 | |
| 编号 | | | Y | Yb | Zn | Zr | | | | | | | | | | |
| VS-2122-81 | | | 0.0064 | 0.0005 | 0.0069 | 0.0070 | | | | | | | | | | |

Molochite煅烧瓷土

| 编号 | 描述 | 种类 | Al ₂ O ₃ | BaO | CaO | Fe ₂ O ₃ | K ₂ O | MgO | Mn ₃ O ₄ | Na ₂ O | P ₂ O ₅ | SiO ₂ | SrO | TiO ₂ | ZrO ₂ | 规格 |
|------------|-----------|----|--------------------------------|------|------|--------------------------------|------------------|------|--------------------------------|-------------------|-------------------------------|------------------|------|------------------|------------------|------------|
| CERAM AN40 | Molochite | RM | 37.9 | 0.03 | 0.14 | 0.85 | 1.52 | 0.24 | 0.01 | 0.12 | 0.11 | 58.8 | 0.02 | 0.06 | 0.016 | 25g / 100g |

Mullite莫来石

| 编号 | 描述 | 种类 | Al ₂ O ₃ | CaO | Fe ₂ O ₃ | K ₂ O | MgO | Na ₂ O | P | P ₂ O ₅ | SiO ₂ | TiO ₂ | ZrO ₂ ** | 规格 |
|-------------|---------|-----|--------------------------------|-------|--------------------------------|------------------|-------|-------------------|-------|-------------------------------|------------------|------------------|---------------------|------|
| SEI-CJR041* | Mullite | CRM | 70.18 | 0.059 | 0.598 | 0.174 | 0.190 | 0.197 | | 0.136 | 28.11 | 0.185 | 0.058 | 100g |
| NCS HC14807 | Mullite | CRM | 43.62 | 0.23 | 1.14 | 1.62 | 0.21 | 0.46 | 0.062 | | 51.43 | 0.65 | | 80g |
| NCS HC14808 | Mullite | CRM | 57.47 | 0.15 | 0.46 | 1.69 | 0.14 | 0.46 | 0.022 | | 37.41 | 1.45 | | 80g |
| NCS HC14809 | Mullite | CRM | 72.39 | 0.19 | 0.93 | 0.24 | 0.42 | 0.16 | 0.043 | | 21.81 | 3.64 | | 80g |

* only available in set SEI-CJR303-R041

Norite苏长岩

| 编号 | 描述 | 种类 | Al ₂ O ₃ | Ba | CO ₂ | CaO | Ce (μg/g) | Co | Cr (μg/g) | Cu | Eu | FeO | Fe ₂ O ₃ | Fe (tot)* | Ga | 规格 |
|--------|--------|-----|--------------------------------|------------------|-----------------|-----------|-----------|-----------|-------------------|-----------|----------|----------|--------------------------------|-----------|--------|------|
| SARM 4 | Norite | CRM | 16.50 | 0.0102 | (0.10) | 11.50 | (6) | 0.0058 | (30) | 0.0014 | 0.000063 | 7.47 | (0.8) | 8.97 | 0.0016 | 100g |
| 编号 | | | H ₂ O+ | K ₂ O | La (μg/g) | Lu (μg/g) | MgO | MnO | Na ₂ O | Nd (μg/g) | Ni | P (μg/g) | SiO ₂ | Sm (μg/g) | Sr | |
| SARM 4 | | | 0.33 | 0.25 | (3) | (0.2) | 7.50 | 0.18 | 2.46 | (3) | 0.0120 | (130) | 52.64 | (0.8) | 0.0260 | |
| 编号 | | | TiO ₂ | V | Y (μg/g) | Yb (μg/g) | Zn | Zr (μg/g) | | | | | | | | |
| SARM 4 | | | 0.20 | 0.0220 | (7) | (0.7) | 0.0068 | (23) | | | | | | | | |

Obsidian黑曜石

| 编号 | 描述 | 种类 | Al ₂ O ₃ | Ba | CaO | Cr | Cu | FeO | Fe ₂ O ₃ | K ₂ O | MgO | MnO | Na ₂ O | Ni | P ₂ O ₅ | 规格 |
|----|----|----|--------------------------------|----|-----|----|----|-----|--------------------------------|------------------|-----|-----|-------------------|----|-------------------------------|----|
|----|----|----|--------------------------------|----|-----|----|----|-----|--------------------------------|------------------|-----|-----|-------------------|----|-------------------------------|----|

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|----------|----------|-----|-------|----------|-------|-----------|---------|------|------|------|--------|-------|------|---------|-------|-----|
| NIST-278 | Obsidian | CRM | 14.15 | (0.1140) | 0.983 | (0.00061) | 0.00059 | 1.36 | 2.04 | 4.16 | (0.23) | 0.052 | 4.84 | 0.00036 | 0.036 | 35g |
|----------|----------|-----|-------|----------|-------|-----------|---------|------|------|------|--------|-------|------|---------|-------|-----|

| 编号 | Pb | Rb | SiO2 | Sr | Th | Ti | TiO2 | U |
|----------|---------|---------|-------|---------|---------|----------|-------|----------|
| NIST-278 | 0.00164 | 0.01275 | 73.05 | 0.00635 | 0.00124 | 0.000054 | 0.245 | 0.000458 |

Olivine 橄榄石

| 编号 | 描述 | 种类 | Al2O3 | C (tot) | CO2 | CaO | Co3O4 | Cr2O3 | Fe | C) | K2O | MgO | Mn3O4 | NiO | P2O5 | 规格 |
|------------|---------|----|-------|---------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|------|
| DH-SX49-11 | Olivine | RM | 0.95 | | | 0.491 | 0.019 | 0.425 | 5.52 | | 0.024 | 47.37 | 0.118 | 0.340 | <0.01 | 100g |
| DH-SX49-12 | Olivine | RM | 0.432 | 0.054 | 0.046 | 0.081 | 0.016 | 0.383 | 5.07 | 1.25 | 0.014 | 49.18 | 0.103 | 0.354 | | 100g |

| 编号 | SiO2 | TiO2 |
|------------|-------|-------|
| DH-SX49-11 | 42.63 | 0.013 |
| DH-SX49-12 | 41.6 | 0.002 |

Ooze 淤泥

| 编号 | 描述 | 种类 | Al2O3 | As | Au | B | Ba | Be | C (org) | CO2 | CaO | Ce | Co | Cr | Cs | 规格 |
|------------|------|-----|-------|--------|-----------|-------|-------|---------|---------|-------|-------|--------|--------|--------|---------|-----|
| VS-5370-90 | Ooze | CRM | 3.60 | | | | 0.010 | 0.00010 | | 32.20 | 39.23 | | 0.0012 | 0.0034 | | 50g |
| VS-5371-90 | Ooze | CRM | 8.96 | 0.0020 | 0.0000004 | 0.007 | 0.15 | 0.00016 | 0.34 | 2.70 | 6.40 | 0.0033 | 0.0030 | 0.0080 | 0.00030 | 50g |

| 编号 | Cu | FeO | Fe (tot)* | Ga | K2O | La | Li | LOI | MgO | MnO | Mo | Na2O | Nb |
|------------|--------|------|-----------|--------|------|--------|--------|------|------|-------------|---------|------|--------|
| VS-5370-90 | 0.0030 | 0.17 | 2.44 | 0.0005 | 0.51 | 0.0007 | 0.0013 | 36.6 | 3.44 | 0.218 (tot) | 0.0004 | 1.86 | |
| VS-5371-90 | 0.014 | 1.2 | 5.05 | 0.0011 | 1.39 | 0.0015 | 0.0018 | 9.6 | 3.16 | 0.37 (tot) | 0.00028 | 4.52 | 0.0010 |

| 编号 | Nd | Ni | P2O5 | Pb | Rb | S | Sc | SiO2 | Sm | Sn | Sr | Th | TiO2 |
|------------|--------|--------|------|--------|--------|------|--------|-------|---------|---------|-------|--------|------|
| VS-5370-90 | | 0.0038 | 0.23 | 0.0011 | 0.0011 | 0.19 | 0.0006 | 11.90 | | 0.021 | 0.12 | 0.0003 | 0.30 |
| VS-5371-90 | 0.0013 | 0.010 | 0.12 | 0.0024 | 0.0046 | 0.17 | 0.0017 | 59.60 | 0.00025 | 0.00032 | 0.034 | 0.0005 | 0.59 |

| 编号 | U | V | Y | Yb | Zn | Zr |
|------------|---------|--------|--------|---------|--------|-------|
| VS-5370-90 | | 0.0057 | 0.0009 | | 0.010 | 0.008 |
| VS-5371-90 | 0.00015 | 0.0085 | 0.0016 | 0.00022 | 0.0090 | 0.010 |

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Pegmatite 晶岩

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | B | Ba | Be | Bi | CO2 | CaO | Cd | Ce | Co | Cr | 规格 |
|-------------|-----------|-----|-------------|------------|----------|------------|------------|------------|------------|------------|-------------|------------|------------|-----------|-----------|-----|
| NCS DC71313 | Pegmatite | CRM | (0.000009) | 13.19 | 0.00031 | (0.00019) | (0.0728) | 0.00013 | (0.000007) | (0.05) | (0.1) | 0.000015 | (0.0005) | (0.00015) | 0.00048 | 70g |
| 编号 | | | Cs | Cu | Dy | Er | Eu | F | FeO | Fe (tot)* | Ga | Gd | Ge | H2O+ | Hf | |
| NCS DC71313 | | | 0.00018 | 0.00042 | 0.000020 | (0.000012) | (0.000016) | (0.03) | (0.04) | (0.24) | 0.00135 | 0.000022 | 0.00015 | (1.02) | (0.00008) | |
| 编号 | | | Hg | Ho | K2O | La | Li | LOI | Lu | MgO | Mn | Mo | Na2O | Nb | Nd | |
| NCS DC71313 | | | (0.0000008) | (0.000004) | 6.22 | (0.00033) | 0.00144 | 1.27 | 0.000003 | 0.13 | (0.01) | (0.000029) | 1.60 | 0.00146 | 0.00015 | |
| 编号 | | | Ni | P2O5 | Pb | Pr | Rb | SO3 | Sb | Sc | Se | SiO2 | Sm | Sn | Sr | |
| NCS DC71313 | | | (0.00016) | 0.18 | 0.00346 | 0.000048 | 0.0155 | 0.07 | 0.000064 | (0.000285) | (0.0000015) | 76.40 | (0.000024) | 0.00035 | 0.00455 | |
| 编号 | | | Ta | Tb | Th | TiO2 | Tm | U | V | W | Y | Yb | Zn | Zr | | |
| NCS DC71313 | | | 0.00013 | (0.000004) | 0.000066 | 0.61 | (0.000002) | (0.000075) | 0.00445 | 0.00032 | 0.00016 | 0.000021 | 0.00203 | 0.00226 | | |

Peridotite 橄榄岩

| 编号 | 描述 | 种类 | Al2O3 | Ba | CO2 | CaO | Co | Cr | Cu | FeO | Fe (tot)* | Ga | Ge | K2O | MgO | 规格 |
|------------|------------|-----|------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|--------------|------------|-------------|--------|
| VS-2111-81 | Peridotite | CRM | 1.84 | 0.0066 | 0.69 | 1.26 | 0.0159 | 0.320 | 0.0140 | 8.83 | 11.58 | 0.00059 | 0.00016 | 0.044 | 37.12 | 40g |
| 编号 | | | MnO | Mo | Na2O | Ni | Pb | S | Sc | SiO2 | Sn | TiO2 | V | Yb | Zn | Zr |
| VS-2111-81 | | | 0.183 | 0.00013 | 0.105 | 0.160 | 0.00067 | 0.030 | 0.00113 | 45.54 | 0.00032 | 0.107 | 0.0039 | 0.00015 | 0.0137 | 0.0021 |
| 编号 | 描述 | 种类 | Ag | Al | Al2O3 | As | Au | B | Ba | Be | Bi | C | Ca | CaO | Cd | 规格 |
| CAN-WPR-1A | Peridotite | CRM | 0.000102 | 2.621 | | 0.00093 | (0.000005) | | 0.00706 | (0.00002) | 0.0000122 | (0.15) | 2.528 | | 0.0000598 | 400g |
| GSJ-JP-1 | Peridotite | CRM | (0.00015) | 0.35 | 0.66 | 0.000034 | 0.000000023 | (0.00014) | (0.00195) | (<0.00001) | | (0.0764) | 0.39 | 0.55 | (0.0000011) | 20g |
| 编号 | | | Ce | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | F | Fe | FeO | Fe2O3 | |
| CAN-WPR-1A | | | 0.000969 | | 0.0213 | (0.322) | 0.000238 | 0.299 | 0.0001624 | 0.0000886 | 0.0000497 | | 11.34 | | | |
| GSJ-JP-1 | | | (0.000019) | (0.0097) | 0.0116 | 0.2807 | (0.000015) | 0.000672 | (0.0000022) | (0.0000016) | (0.0000004) | (0.0014) | 5.85 | 5.99 | 1.98 | |
| 编号 | | | Fe (tot)* | Ga | Gd | Ge | H2O- | H2O+ | Hf | Hg | Ho | In | Ir | K | K2O | |
| CAN-WPR-1A | | | | 0.000704 | 0.000176 | (0.00003) | | | 0.0001142 | (0.000005) | 0.0000322 | (0.00000899) | (0.00002) | 0.156 | | |
| GSJ-JP-1 | | | 8.37 | (0.000070) | (0.0000015) | (0.000049) | 0.44 | 2.39 | 0.000020 | (0.00000053) | (0.0000018) | | (0.00020) | 0.002 | 0.003 | |
| 编号 | | | La | Li | LOI | Lu | Mg | MgO | Mn | MnO | Mo | Na | Na2O | Nb | Nd | |
| CAN-WPR-1A | | | 0.000404 | 0.00256 | (8.42) | 0.0000121 | (15.22) | | 0.138 | | (0.00009) | (0.050) | | (0.000388) | 0.000626 | |
| GSJ-JP-1 | | | 0.0000084 | (0.000179) | | (0.00000044) | 26.9 | 44.60 | 0.094 | 0.121 | (0.0000087) | 0.02 | 0.021 | 0.000148 | (0.0000072) | |
| 编号 | | | Ni | Os | P | P2O5 | Pb | Pd | Pr | Pt | Rb | Re | Ru | S | Sb | |
| CAN-WPR-1A | | | 0.439 | | 0.0303 | | 0.000792 | 0.0000614 | 0.0001362 | 0.0000452 | 0.000706 | | | 1.768 | 0.000313 | |
| GSJ-JP-1 | | | 0.2460 | (0.00000079) | | (0.002) | (0.000012) | (0.00000013) | (0.0000020) | (0.00000049) | (0.000080) | 0.000000014 | (0.00000065) | (0.00269) | (0.0000034) | |

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| 编号 | Sc | Se | Si | SiO2 | Sm | Sn | Sr | Ta | Tb | Te | Th | Ti | TiO2 |
|------------|----------|-----------|-------|-------|-----------|------------|------------|-------------|-------------|-------------|------------|--------|---------|
| CAN-WPR-1A | 0.00173 | (0.00077) | 17.62 | | 0.0001617 | (0.000116) | 0.00195 | (0.0000242) | 0.0000269 | (0.0000958) | (0.000064) | 0.3527 | |
| GSJ-JP-1 | 0.000724 | | 19.81 | 42.38 | 0.0000019 | (0.000005) | (0.000332) | (0.000002) | (0.0000003) | | 0.000019 | | (0.006) |

| 编号 | Tl | Tm | U | V | W | Y | Yb | Zn | Zr |
|------------|--------------|--------------|-----------|---------|------------|----------|-----------|---------|-----------|
| CAN-WPR-1A | (0.00000752) | 0.0000126 | | 0.0135 | | 0.000839 | 0.0000790 | 0.0160 | (0.00418) |
| GSJ-JP-1 | (0.0000003) | (<0.0000041) | 0.0000036 | 0.00276 | (0.000085) | 0.000154 | 0.0000022 | 0.00418 | 0.000592 |

Prophilite叶蜡石

| 编号 | 描述 | 种类 | Al2O3 | CaO | Fe2O3 | Fe (tot)* | H2O+ | K2O | LOI | MgO | MnO | Na2O | P2O5 | SO3 | SiO2 | TiO2 | 规格 |
|-------------|------------|-----|-------|-------|-------|-----------|------|-------|------|-------|--------|-------|------|------|-------|------|-----|
| SEI-CJR802 | Prophilite | CRM | 32.3 | 0.04 | 0.23 | | | 0.07 | 6.0 | <0.01 | | 0.09 | 0.05 | | 60.7 | 0.19 | 50g |
| NCS DC60127 | Prophilite | CRM | 23.58 | 0.17 | | 1.94 | 4.15 | 0.38 | 5.48 | 0.087 | 0.0037 | 0.34 | 0.20 | 0.61 | 66.84 | 0.70 | 50g |
| NCS DC60128 | Prophilite | CRM | 22.20 | 0.066 | | 0.22 | 5.57 | 0.028 | 6.34 | 0.041 | 0.0040 | 0.043 | 0.11 | 0.17 | 70.34 | 0.18 | 50g |

Pyroxenite辉石岩

| 编号 | 描述 | 种类 | Al2O3 | CaO | Cr2O3 | FeO | Fe2O3 | K2O | MgO | MnO | Na2O | SiO2 | TiO2 | 规格 |
|--------|------------|-----|-------|------|-------|-------|-------|------|-------|------|------|-------|------|------|
| SARM 5 | Pyroxenite | CRM | 4.18 | 2.66 | 3.50 | 10.59 | 0.87 | 0.09 | 25.33 | 0.22 | 0.37 | 51.10 | 0.20 | 100g |

Rhyolite流纹岩

| 编号 | 描述 | 种类 | Ag | Al | Al2O3 | As | Au (ppm) | B | Ba | Be | Bi | Br | C | CO2 | Ca | 规格 |
|--------------|----------|-----|-------------|------|-------|-----------|----------|-----------|---------|----------|------------|------------|------------|------|------|------------|
| NIM-GBW07113 | Rhyolite | CRM | 0.000008 | | 12.96 | 0.000066 | | 0.00035 | 0.0506 | 0.000409 | 0.000060 | (0.000025) | (0.15 Tot) | 0.52 | | 70g |
| GSJ-JR-1 | Rhyolite | CRM | (0.0000031) | 6.79 | 12.83 | 0.00163 | 0.00025 | 0.0117 | 0.00503 | 0.000334 | 0.000056 | (0.0006) | 0.00708 | | 0.48 | 20g / 100g |
| GSJ-JR-2 | Rhyolite | CRM | (0.0000028) | 6.73 | 12.72 | 0.00192 | 0.00013 | 0.0145 | 0.00395 | 0.000375 | 0.000062 | | (0.0063) | | 0.36 | 20g |
| GSJ-JR-3 | Rhyolite | CRM | (0.0000036) | | 11.90 | (0.00011) | | (0.00114) | 0.00658 | 0.00076 | (0.000021) | | (0.0230) | | | 100g |

| 编号 | CaO | Cd | Ce | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | F | Fe |
|--------------|-------|-------------|---------|----------|----------|----------|----------|----------|-----------|-----------|----------|--------|------|
| NIM-GBW07113 | 0.59 | 0.000014 | 0.0163 | (0.002) | 0.000240 | 0.00073 | 0.000334 | 0.00109 | 0.000819 | 0.000431 | 0.000118 | 0.13 | |
| GSJ-JR-1 | 0.67 | 0.0000026 | 0.00472 | 0.0920 | 0.000083 | 0.000283 | 0.00208 | 0.000268 | 0.000569 | 0.000361 | 0.000030 | 0.0991 | 0.62 |
| GSJ-JR-2 | 0.50 | 0.0000023 | 0.00388 | (0.0736) | 0.000046 | 0.000310 | 0.00250 | 0.000136 | 0.000663 | 0.000436 | 0.000014 | 0.1109 | 0.54 |
| GSJ-JR-3 | 0.093 | (0.0000064) | 0.0327 | | 0.000098 | 0.00035 | 0.00010 | 0.00029 | (0.00215) | (0.00140) | 0.000053 | | |

| 编号 | FeO | Fe2O3 | Fe (tot)* | Ga | Gd | Ge | H2O | H2O- | H2O+ | Hf | Hg | Ho | I |
|--------------|------|-------|-----------|---------|-----------|------------|------|--------|--------|----------|--------------|-----------|-------------|
| NIM-GBW07113 | 1.86 | 1.14 | | 0.00205 | 0.000947 | 0.000117 | 1.18 | | | 0.00108 | 0.0000005 | 0.000164 | (0.0000093) |
| GSJ-JR-1 | 0.49 | 0.35 | 0.89 | 0.00161 | 0.000506 | 0.000188 | | 0.20 | 1.16 | 0.000451 | (0.00000034) | 0.000111 | (0.0000080) |
| GSJ-JR-2 | 0.44 | 0.27 | 0.77 | 0.00179 | 0.000583 | (0.000188) | | 0.22 | 1.19 | 0.000514 | (0.00000009) | 0.000139 | (0.0000067) |
| GSJ-JR-3 | 1.86 | 2.61 | 4.72 | 0.00366 | (0.00197) | | | (0.24) | (0.72) | 0.00403 | (0.00000034) | (0.00047) | |

| 编号 | In | Ir (ppm) | K | K2O | La | Li | Lu | Mg | MgO | Mn | MnO | Mo | Na |
|--------------|-------------|----------|------|------|---------|----------|----------|------|-------|-------|-------|----------|------|
| NIM-GBW07113 | 0.000009 | | | 5.43 | 0.00827 | 0.00127 | 0.000067 | | 0.16 | | 0.14 | 0.000246 | |
| GSJ-JR-1 | (0.0000028) | | 3.66 | 4.41 | 0.00197 | 0.00614 | 0.000071 | 0.07 | 0.12 | 0.077 | 0.099 | 0.000325 | 2.98 |
| GSJ-JR-2 | | (0.0022) | 3.69 | 4.45 | 0.00163 | 0.00792 | 0.000088 | 0.02 | 0.04 | 0.087 | 0.112 | 0.000335 | 2.96 |
| GSJ-JR-3 | | | | 4.29 | 0.0179 | (0.0120) | 0.00028 | | 0.050 | | 0.083 | 0.000049 | |

| 编号 | Na2O | Nb | Nd | Ni | P | P2O5 | Pb | Pd (ppm) | Pr | Pt (ppm) | Rb | Re (ppm) | S |
|--------------|------|---------|---------|------------|-------|-------|---------|-----------|---------|-----------|--------|------------|---------|
| NIM-GBW07113 | 2.57 | 0.00343 | 0.00645 | 0.00645 | | 0.045 | 0.00333 | | 0.00184 | | 0.0213 | | 0.009 |
| GSJ-JR-1 | 4.02 | 0.00152 | 0.00233 | (0.000167) | 0.009 | 0.021 | 0.00193 | (<0.0002) | 0.00058 | (<0.0005) | 0.0257 | (0.000046) | 0.00133 |

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|----------|------|---------|---------|------------|-------|-------|---------|-----------|----------|-----------|--------|------------|-----------|
| GSJ-JR-2 | 3.99 | 0.00187 | 0.00204 | (0.000199) | 0.005 | 0.012 | 0.00215 | (<0.0002) | 0.000475 | (<0.0005) | 0.0303 | (0.000023) | (0.00096) |
| GSJ-JR-3 | 4.69 | 0.0510 | 0.0107 | (0.00016) | | 0.017 | 0.00328 | | 0.00331 | | 0.0453 | | (0.0039) |

| 编号 | Sb | Sc | Se (ppm) | SiO2 | Sm | Sn | Sr | Ta | Tb | Te | Th | Ti | TiO2 |
|-------------|------------|----------|----------|-------|----------|----------|----------|----------|----------|-------------|---------|-------|------|
| NIM-GBW7113 | 0.000038 | 0.000515 | 0.04 | 72.78 | 0.00117 | 0.000335 | 0.00430 | 0.000241 | 0.000151 | (0.0000009) | 0.00271 | | 0.30 |
| GSJ-JR-1 | 0.000119 | 0.000507 | (0.006) | 75.45 | 0.000603 | 0.000286 | 0.00291 | 0.000186 | 0.000101 | | 0.00267 | 0.066 | 0.11 |
| GSJ-JR-2 | 0.000151 | 0.000559 | (0.0028) | 75.69 | 0.000563 | 0.000351 | 0.000811 | 0.000229 | 0.000110 | | 0.00314 | 0.04 | 0.07 |
| GSJ-JR-3 | (0.000017) | 0.000050 | | 72.76 | 0.00213 | 0.00174 | 0.00104 | 0.00368 | 0.000429 | | 0.0112 | | 0.21 |

| 编号 | Tl | Tm | U | V | W | Y | Yb | Zn | Zr |
|--------------|------------|----------|----------|----------|-----------|---------|----------|---------|---------|
| NIM-GBW07113 | 0.000083 | 0.000073 | 0.000483 | 0.00038 | 0.000110 | 0.00425 | 0.000451 | 0.00863 | 0.0403 |
| GSJ-JR-1 | 0.000156 | 0.000067 | 0.000888 | 0.00070 | 0.000159 | 0.00451 | 0.000455 | 0.00306 | 0.00999 |
| GSJ-JR-2 | 0.000185 | 0.000074 | 0.00109 | 0.000300 | (0.00018) | 0.00511 | 0.000533 | 0.00278 | 0.00963 |
| GSJ-JR-3 | (0.000093) | | 0.00211 | 0.00042 | (0.00078) | 0.0166 | 0.00203 | 0.0209 | 0.1494 |

Sand

| 编号 | 描述 | 种类 | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | Fe (tot)* | K2O | LOI | MgO | Na2O | SiO2 | TiO2 | ZrO2 | 规格 |
|------------|-------------|-----|-------|------|---------|--------|-------|-----------|---------|--------|---------|---------|-------|-------|-------|------|
| IPT-61 | Sand | CRM | 0.054 | | (0.004) | | 0.014 | | (0.007) | (0.06) | (0.003) | (0.002) | 99.79 | 0.026 | 0.010 | 100g |
| IPT-62 | Sand | CRM | 0.11 | | (0.004) | | 0.072 | | (0.007) | 0.10 | (0.004) | (0.002) | 99.62 | 0.036 | 0.010 | 100g |
| SGTSAND6 | Glass sand | CRM | 0.60 | | <0.02 | | | 0.032 | 0.40 | 0.14 | <0.02 | <0.02 | 98.66 | 0.024 | | 200g |
| SGTSAND8 | Glass sand | CRM | 2.07 | | 0.06 | | | 0.26 | 1.06 | 0.48 | 0.12 | 0.20 | 95.63 | 0.073 | | 200g |
| NIST-1413 | Glass sand | CRM | 9.90 | 0.12 | 0.74 | | 0.24 | | 3.94 | | 0.06 | 1.75 | 82.77 | 0.11 | | 75g |
| SEI-CJR501 | Zircon Sand | CRM | 0.39 | | | | 0.06 | | | 0.11 | | | 32.6 | 0.16 | | 100g |
| SEI-CJR502 | Zircon Sand | CRM | 5.87 | | | | 0.10 | | | 0.26 | | | 32.8 | 0.24 | | 100g |
| NIST-165A | Glass sand | CRM | 0.059 | | | | | 0.012 | | | | | | 0.011 | 0.006 | 75g |
| NIST-81A | Glass sand | CRM | 0.66 | | | 0.0046 | 0.082 | | | | | | | 0.12 | 0.034 | 75g |
| UN SPS | Glass sand | CRM | 0.248 | | 0.029 | | 0.037 | | 0.058 | 0.167 | 0.0071 | 0.045 | 99.32 | 0.035 | | 100g |

| 编号 | ZrO2** |
|------------|--------|
| IPT-61 | |
| IPT-62 | |
| SGTSAND6 | |
| SGTSAND8 | |
| NIST-1413 | |
| SEI-CJR501 | 66.5 |
| SEI-CJR502 | 60.3 |
| NIST-165A | |
| NIST-81A | |
| UN SPS | |

| 编号 | 描述 | 种类 | Al2O3 | BaO | C (tot) | CO2 | CaO | CeO2 | Co3O4 | Cr2O3 | CuO | Fe (tot) | Fe2O3 | C | K2O | 规格 |
|------------|--------------|----|-------|-------|---------|-------|--------|-------|-------|-------|-------|----------|-------|-------|-------|------|
| DH-SX33-01 | Foundry sand | RM | 2.76 | 0.015 | | | 0.720 | 0.003 | 0.020 | 0.538 | 0.012 | | 3.84 | | 0.169 | 100g |
| DH-SX45-01 | Slide sand | RM | 4.92 | | 0.607 | | 0.025 | | | 11.53 | | 5.14 | | 0.204 | 0.633 | 100g |
| DH-SX45-02 | Slide sand | RM | 5.69 | | 0.471 | | 0.038 | | | 14.75 | | 6.31 | | 0.177 | 0.693 | 100g |
| DH-SX45-05 | Slide sand | RM | 6.62 | | 0.659 | | 0.031 | | | 18.41 | | 7.90 | | | 0.502 | 100g |
| DH-SX45-06 | Slide sand | RM | 12.93 | | 0.700 | | <0.017 | | | 42.01 | | 17.51 | | 0.091 | | 100g |
| DH-SX45-07 | Slide sand | RM | 11.00 | | 0.326 | 0.013 | 0.096 | | | 33.41 | | 14.51 | | 0.129 | | 100g |

| 编号 | La | Li | MgO | Mn3O4 | Na2O | Nd | NiO | P2O5 | S | SO3 | SiO2 | Sr | TiO2 |
|----|----|----|-----|-------|------|----|-----|------|---|-----|------|----|------|
|----|----|----|-----|-------|------|----|-----|------|---|-----|------|----|------|

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|------------|---------|---------|-------|-------|-------|---------|-------|-------|-------|-------|---------|-------|
| DH-SX33-01 | 0.00140 | 0.00067 | 0.570 | 0.070 | 0.297 | 0.00083 | 0.003 | 0.027 | 0.116 | 90.36 | 0.00350 | 0.213 |
| DH-SX45-01 | | | 2.40 | 0.065 | 0.059 | | 0.053 | | | 72.21 | | 0.195 |
| DH-SX45-02 | | | 3.24 | 0.074 | 0.062 | | 0.033 | 0.007 | | 65.97 | | 0.203 |
| DH-SX45-05 | | | 3.98 | 0.096 | 0.059 | | 0.045 | | 0.022 | 58.23 | | 0.242 |
| DH-SX45-06 | | | 8.18 | 0.703 | | | | | 0.007 | 10.22 | | 0.510 |
| DH-SX45-07 | | | 7.29 | 0.179 | | | 0.090 | | | 27.95 | | 0.486 |

| 编号 | V2O5 | WO3 | ZnO | ZrO2 |
|------------|-------|-------|-------|-------|
| DH-SX33-01 | 0.007 | | 0.015 | 0.127 |
| DH-SX45-01 | 0.102 | | | |
| DH-SX45-02 | 0.110 | | | |
| DH-SX45-05 | 0.139 | 0.114 | | 0.003 |
| DH-SX45-06 | 0.382 | | | |
| DH-SX45-07 | 0.270 | 0.019 | | |

Sand continued

| 编号 | 描述 | 种类 | Al2O3 | As2O3 | As2O5 | BaO | CaO | Cl | Cr2O3 | Fe2O3 | HfO2 | K2O | LOI | MgO | Mn | 规格 |
|-----------------|------------|-----|-------|-------|-------|--------|--------|------|--------|--------|---------|-------|-------|--------|----------|------|
| BAS-BCS-CRM 516 | Glass sand | CRM | 0.513 | | | 0.0040 | 0.0243 | | 0.0081 | 0.0596 | (<0.01) | 0.127 | 0.24 | 0.0387 | | 100g |
| BAS-BCS-CRM 528 | Glass sand | CRM | 2.447 | | | 0.0298 | 0.237 | | 0.0008 | 0.1111 | | 0.875 | 0.271 | 0.0887 | (<0.002) | 100g |
| NIST-89 | Glass sand | CRM | 0.18 | 0.03 | 0.36 | 1.40 | 0.21 | 0.05 | | 0.049 | | 8.40 | 0.32 | 0.03 | | 45g |

| 编号 | MnO | Mn3O4 | Na2O | P2O5 | PbO | SO3 | SiO2 | Sn | SrO | TiO2 | ZnO | ZrO2 |
|-----------------|-------|--------|--------|---------|--------|------|-------|----------|---------|--------|---------|---------|
| BAS-BCS-CRM 516 | | 0.0012 | 0.0195 | (0.013) | 0.0127 | | 98.73 | | (<0.01) | 0.175 | (<0.01) | (0.075) |
| BAS-BCS-CRM 528 | | | 0.101 | (0.20) | 0.0006 | | 95.62 | (0.0016) | | 0.0486 | | (0.014) |
| NIST-89 | 0.088 | | 5.70 | 0.23 | 17.50 | 0.03 | 65.35 | | | 0.01 | | 0.005 |

Sandstone砂岩

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | Au | B | Ba | Be | Bi | C | C (org) | CO2 | CaO | Cd | 规格 |
|--------------|-----------|-----|-----------|---------|-----------|--------------|----------|--------|----------|-----------|------------|---------|--------|--------|-----------|-----|
| NIM-GBW07106 | Sandstone | CRM | 0.0000062 | 3.52 | 0.00091 | (0.00000018) | 0.0034 | 0.0143 | 0.000097 | 0.000018 | (0.10 tot) | (0.05) | (0.19) | 0.30 | 0.0000060 | 70g |
| UL PRI-1 | Sandstone | CRM | | 10.84 | (0.00047) | | (0.0052) | 0.0531 | 0.00014 | (0.00001) | | | (2.62) | 2.49 | | 50g |
| VS-2888-84 | Sandstone | CRM | 0.00259 | (11.49) | | | | | | | | | (3.05) | (3.78) | | 50g |

| 编号 | Ce | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | F | FeO | Fe2O3 | Fe (tot)* |
|--------------|--------|----------|---------|--------|-----------|-----------|---------|-----------|----------|----------|--------|-------|-----------|
| NIM-GBW07106 | 0.0048 | (0.0044) | 0.00064 | 0.0020 | 0.00018 | 0.0019 | 0.00041 | 0.00020 | 0.000102 | 0.0183 | 0.61 | | 3.22 |
| UL PRI-1 | 0.0082 | | 0.00074 | 0.0078 | (0.00022) | (0.00035) | 0.00043 | (0.00027) | 0.000129 | (0.0383) | (2.07) | | 3.32 |
| VS-2888-84 | | | | | | 1.55 | | | | (0.039) | (3.16) | | (4.17) |

| 编号 | Ga | Gd | Ge | H2O+ | Hf | Hg | Ho | I | In | K2O | La | Li | LOI |
|--------------|----------|---------|-----------|------|---------|-----------|----------|-----------|-------------|--------|--------|---------|------|
| NIM-GBW07106 | 0.00053 | 0.00045 | 0.000116 | 1.01 | 0.00066 | 0.0000008 | 0.000075 | (0.00002) | (0.0000026) | 0.65 | 0.0021 | 0.00111 | 1.10 |
| UL PRI-1 | (0.0013) | 0.00053 | (<0.0005) | | 0.00107 | | (0.0001) | | (<0.0001) | 3.79 | 0.0038 | | 4.99 |
| VS-2888-84 | | | | | | | | | | (1.82) | | | |

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| 编号 | Lu | MgO | Mn | MnO | Mo | Na2O | Nb | Nd | Ni | P | P2O5 | Pb | Pr |
|--------------|----------|--------|--------|--------|-----------|--------|---------|--------|---------|--------|--------|----------|-----------|
| NIM-GBW07106 | 0.00030 | 0.082 | 0.0155 | | 0.000076 | 0.061 | 0.00059 | 0.0021 | 0.00166 | 0.0970 | | 0.00076 | 0.00054 |
| UL PRI-1 | 0.000041 | 3.24 | | 0.04 | (0.00007) | 1.71 | 0.0013 | 0.0036 | 0.0021 | | 0.18 | (0.0013) | (0.00095) |
| VS-2888-84 | | (1.49) | | (0.16) | | (2.98) | | | | | (0.12) | 0.103 | |

| 编号 | Rb | Re | S | Sb | Sc | Se | SiO2 | Sm | Sn | Sr | Ta | Tb | Te |
|--------------|--------|----------|----------|-----------|---------|----------|---------|---------|----------|--------|----------|----------|-----------|
| NIM-GBW07106 | 0.0029 | | 0.0860 | 0.000060 | 0.00042 | 0.000008 | 90.36 | 0.00047 | 0.00011 | 0.0058 | 0.000038 | 0.000079 | 0.0000038 |
| UL PRI-1 | 0.0090 | | (0.0357) | (0.00003) | 0.00097 | | 68.60 | 0.00066 | (0.0002) | 0.0088 | 0.0001 | 0.000085 | |
| VS-2888-84 | | 0.000165 | 0.60 | | | | (66.14) | | | | | | |

| 编号 | Th | Ti | TiO2 | Tl | Tm | U | V | W | Y | Yb | Zn | Zr |
|--------------|---------|--------|--------|-----------|------------|---------|--------|-----------|---------|---------|--------|--------|
| NIM-GBW07106 | 0.00070 | 0.1580 | | 0.000036 | 0.000032 | 0.00021 | 0.0033 | 0.00012 | 0.00215 | 0.00019 | 0.0020 | 0.0214 |
| UL PRI-1 | 0.00113 | | 0.71 | (0.00002) | (0.000039) | 0.00025 | 0.0065 | (0.00022) | 0.0025 | 0.00028 | 0.0047 | 0.0386 |
| VS-2888-84 | | | (0.49) | | | | | | | | 0.023 | |



Schist片岩

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | B | Ba | BaO | Be | CO2 | CaO | Cd | Ce | Cl | Co | 规格 |
|------------|--------|-----|-----------|-------|-----------|-----------|--------|------|-----------|------|------|---------|--------|----------|---------|------|
| UL SBO1 | Schist | CRM | | 18.24 | (0.0032) | | 0.0549 | | (0.00032) | | 1.76 | | 0.0101 | | 0.0022 | 50g |
| UN MI | Schist | CRM | (0.00025) | 14.54 | (0.00692) | (0.00108) | | 0.10 | (0.00018) | 2.13 | 1.96 | 0.00100 | | | 0.00120 | 100g |
| UG-SDC-1 | Schist | CRM | | 15.8 | 0.000022 | (0.0013) | 0.0630 | | 0.0003 | | 1.40 | | 0.0093 | (0.0032) | 0.0018 | 30g |
| VS-3191-85 | Schist | CRM | | 16.71 | | 0.010 | 0.095 | | 0.00035 | | 0.09 | | 0.009 | | 0.0027 | 100g |

| 编号 | Cr | Cs | Cu | Dy | Er | Eu | F | FeO | Fe2O3 | Fe (tot)* | Ga | Gd | Ge |
|------------|---------|-----------|---------|-----------|-----------|-----------|--------|--------|-------|-----------|-----------|---------|----------|
| UL SBO1 | 0.0116 | (0.00068) | 0.0033 | (0.00051) | (0.00034) | 0.000164 | | (5.61) | | 7.15 | (0.0023) | 0.00062 | |
| UN MI | 0.01073 | | 0.00438 | | | | | (4.79) | | 6.41 | (0.00218) | | |
| UG-SDC-1 | 0.0064 | 0.0004 | 0.0030 | (0.00067) | (0.00041) | (0.00017) | 0.0600 | 3.93 | 2.62 | 6.32 | 0.0021 | 0.0007 | |
| VS-3191-85 | 0.007 | (0.0007) | 0.0046 | | | | | 4.65 | | 7.6 | (0.0015) | | (0.0002) |

| 编号 | H2O+ | Hf | Hg | Ho | K2O | La | Li | LOI | Lu | MgO | Mn | MnO | Mo |
|------------|--------|---------|-----------|-----------|------|--------|---------|--------|-----------|--------|--------|------|-----------|
| UL SBO1 | | 0.0005 | | (0.00013) | 3.55 | 0.0048 | | 9.67 | 0.000049 | (1.97) | | 0.18 | |
| UN MI | (2.52) | | | | 2.15 | | | (4.14) | | 3.28 | | 0.25 | |
| UG-SDC-1 | | 0.00083 | (0.00002) | (0.00015) | 3.28 | 0.0042 | 0.0034 | | | 1.69 | 0.0880 | | |
| VS-3191-85 | | | | | 3.56 | | (0.006) | 4.54 | (0.00006) | 2.52 | | 0.13 | (0.00016) |

| 编号 | Na2O | Nb | Nd | Ni | P2O5 | Pb | Pr | Rb | S | Sb | Sc | SiO2 | Sm |
|------------|------|-----------|--------|----------|--------|---------|---------|---------|------|----------|--------|-------|---------|
| UL SBO1 | 0.66 | 0.0017 | 0.0042 | 0.0060 | 0.17 | 0.0027 | 0.00111 | 0.0163 | | | 0.0017 | 55.16 | 0.00078 |
| UN MI | 3.33 | (0.00166) | | 0.00372 | (0.16) | 0.00945 | | 0.00539 | 0.33 | | | 62.19 | |
| UG-SDC-1 | 2.05 | (0.0021) | 0.0040 | (0.0038) | 0.16 | 0.0025 | | 0.0127 | | 0.000054 | 0.0017 | 65.8 | 0.00082 |
| VS-3191-85 | 0.08 | 0.0016 | | 0.0045 | 0.030 | 0.0015 | | 0.015 | | | 0.0022 | 63.40 | |

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| 编号 | Sn | Sr | SrO | Ta | Tb | Th | TiO2 | Tl | Tm | U | V | W | Y |
|------------|----------|--------|-------|-----------|-----------|----------|------|-----------|------------|----------|---------|------------|---------|
| UL SBO1 | | 0.0150 | | 0.00014 | 0.0001 | 0.00152 | 0.94 | | (0.000043) | 0.00031 | 0.0153 | | 0.0032 |
| UN MI | | | 0.016 | | | | 0.71 | | | | 0.01052 | (0.00258) | 0.00198 |
| UG-SDC-1 | 0.00030 | 0.0180 | | (0.00012) | (0.00012) | 0.0012 | 1.01 | (0.00007) | (0.000065) | 0.00031 | 0.0102 | (0.000080) | |
| VS-3191-85 | (0.0004) | 0.0039 | | | | (0.0012) | 1.01 | | | (0.0002) | 0.010 | | 0.0048 |

| 编号 | Yb | Zn | Zr |
|------------|----------|--------|---------|
| UL SBO1 | 0.00032 | 0.0082 | 0.0183 |
| UN MI | (0.0002) | 0.30 | 0.01518 |
| UG-SDC-1 | (0.0004) | 0.0103 | 0.0290 |
| VS-3191-85 | 0.0005 | 0.010 | 0.023 |



Serpentine蛇纹岩

| 编号 | 描述 | 种类 | Al2O3 | As | B | Ba | CO2 | CaO | Ce | Co | Cr | Cr2O3 | Cs | Cu | F | 规格 |
|--------------|----------------------|-----|---------|----------|--------|----------|--------|---------|----------|--------|--------|-------|----------|----------|--------|------|
| Z SW | Serpentine | CRM | 0.66 | (0.0005) | 0.0037 | 0.0019 | 0.28 | 0.18 | | 0.0102 | 0.24 | | (0.0005) | 0.0007 | 0.0066 | 50g |
| SARM 47 | Serpentine | CRM | 1.09 | | | (0.0075) | | (0.1) | (0.0020) | 0.0079 | | 0.29 | | (0.0005) | | 100g |
| CGL-USZ24-99 | Serpentine (CGL 001) | CRM | (0.475) | | | | (0.84) | (0.681) | | 0.0106 | 0.2780 | | | | | 100g |

| 编号 | FeO | Fe2O3 | Fe (tot)* | Ga | H2O | K2O | Li2O | LOI | MgO | MnO | Na2O | Nd | Ni |
|--------------|--------|-------|-----------|----------|------|----------|----------|-------|-------|-------|---------|----------|--------|
| Z SW | 2.00 | 7.40 | | (0.0004) | 13.6 | (0.0014) | (0.0003) | | 38.5 | 0.084 | 0.013 | (0.0004) | 0.22 |
| SARM 47 | (0.4) | 4.14 | | (0.0005) | | (0.02) | | | 42.09 | 0.06 | (0.05) | | 0.2221 |
| CGL-USZ24-99 | (0.27) | | 8.00 | | 0.58 | (0.018) | | 13.33 | 38.22 | 0.082 | (0.038) | | 0.2300 |

| 编号 | P2O5 | Pb | Rb | S | Sc | SiO2 | Sn | Sr | TiO2 | U | V | W | Y |
|--------------|----------|----------|----------|----------|----------|-------|----------|----------|---------|----------|----------|----------|----------|
| Z SW | (0.0017) | (0.0006) | (0.0005) | (0.0003) | (0.0005) | 39.04 | (0.0005) | | 0.016 | (0.0005) | 0.0020 | (0.0005) | |
| SARM 47 | (0.02) | (0.0060) | | | | 36.30 | | (0.0003) | (0.01) | | (0.0016) | | (0.0005) |
| CGL-USZ24-99 | (0.023) | | | | | 38.54 | | 0.00073 | (0.022) | 0.000080 | 0.00334 | | |

| 编号 | Zn |
|---------|--------|
| Z SW | 0.0058 |
| SARM 47 | 0.0045 |

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CGL-USZ24-99 0.0039

Shale页岩

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | Au | B | Ba | Be | Bi | Br | C (tot) | C (free) | C (org) | CO2 | 规格 |
|--------------|--------------------|-----|-----------|-------|-----------|--------------|--------|--------|-----------|----------|-----------|---------|------------|---------|--------|------|
| NIM-GBW03104 | Shale | CRM | | 14.82 | | | | | | | | | | | 0.13 | 60g |
| NIM-GBW07107 | Shale | CRM | 0.0000047 | 18.82 | 0.00014 | (0.00000010) | 0.0154 | 0.0450 | 0.00030 | 0.000023 | (0.00004) | (0.19) | (0.16) org | | (0.10) | 70g |
| Z TS | Shale | CRM | (0.00008) | 15.96 | (0.00275) | | 0.0074 | (0.18) | (0.0004) | | | | | 1.42 | (0.03) | 50g |
| SEI-CJR651 | Aluminous shale | CRM | | 71.7 | | | | | | | | | | | | 100g |
| SARM 41 | Carbonaceous shale | CRM | | 13.50 | | | | 0.0820 | | | | | | | | 100g |
| UL AWI 1 | Shale | CRM | | 16.44 | (0.0015) | | | 0.0378 | (0.00027) | | | | | | | 50g |
| UG-SGR-1 | Shale | CRM | | 6.52 | 0.0067 | | 0.0054 | 0.0290 | | | | (3.16) | | | | 30g |

| 编号 | CaO | Cd | Ce | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | F | FeO |
|--------------|------|-----------|----------|----------|----------|--------|----------|--------|-----------|---------|-----------|--------|--------|
| NIM-GBW03104 | 0.22 | | | 0.014 | | | | | | | | | (0.40) |
| NIM-GBW07107 | 0.60 | 0.0000033 | 0.0109 | 0.0041 | 0.0021 | 0.0099 | 0.0014 | 0.0042 | 0.00051 | 0.00027 | 0.00017 | 0.1290 | 1.39 |
| Z TS | 0.12 | | (0.0168) | | 0.0041 | 0.0280 | 0.0013 | 0.0460 | | | (0.00032) | 0.1150 | 0.70 |
| SEI-CJR651 | 0.19 | | | | | | | | | | | | |
| SARM 41 | 1.50 | | (0.0060) | | (0.0015) | 0.0123 | | 0.0053 | | | | | (0.3) |
| UL AWI 1 | 0.69 | | 0.0080 | | 0.0020 | 0.0119 | (0.0007) | 0.0034 | 0.00051 | 0.00029 | 0.000147 | | (5.52) |
| UG-SGR-1 | 8.38 | (0.00009) | 0.0036 | (0.0032) | 0.0012 | 0.0030 | 0.00052 | 0.0066 | (0.00019) | 0.00011 | 0.000056 | 0.1960 | (0.90) |

| 编号 | Fe2O3 | Fe2O3 (tot) | Fe (tot)* | Ga | Gd | Ge | H2O | H2O+ | Hf | Hg | Ho | I | In |
|--------------|--------|-------------|-----------|----------|----------|---------|--------|------|----------|-----------|-----------|----------|-----------|
| NIM-GBW03104 | 5.67 | | | | | | (3.71) | | | | | | |
| NIM-GBW07107 | | | 7.60 | 0.0026 | 0.00067 | 0.00031 | | 5.6 | 0.00029 | 0.000010 | 0.000098 | 0.000024 | 0.0000082 |
| Z TS | 7.40 | | | 0.0021 | | | 4.01 | | (0.0007) | | | | |
| SEI-CJR651 | 1.48 | | | | | | | | | | | | |
| SARM 41 | 4.23 | | | (0.0020) | | | | | | | | | |
| UL AWI 1 | | | 7.21 | 0.0022 | 0.0006 | | | | 0.00063 | | 0.00011 | | |
| UG-SGR-1 | (4.19) | 3.03 | 3.03 | (0.0012) | (0.0002) | | | | 0.00014 | (0.00003) | (0.00004) | | |

continues next page

| 编号 | K2O | La | Li | LOI | Lu | MgO | Mn | MnO | Mo | N | Na2O | Nb | Nd |
|--------------|------|----------|----------|--------|-----------|--------|--------|-------|----------|--------|-------|-----------|----------|
| NIM-GBW03104 | 3.76 | | | 4.17 | | 0.67 | | 0.024 | | | 0.20 | | |
| NIM-GBW07107 | 4.16 | 0.0062 | 0.0044 | (5.95) | 0.000041 | 2.01 | 0.0173 | | 0.000035 | 0.0540 | 0.35 | 0.00143 | 0.0048 |
| Z TS | 4.86 | (0.0080) | 0.0040 | | (0.00036) | 1.77 | | 0.037 | 0.0130 | | 0.078 | (0.0013) | (0.0108) |
| SEI-CJR651 | 0.65 | | | 0.58 | | 0.10 | | | | | 0.03 | | |
| SARM 41 | 1.39 | | | | | 8.10 | | 0.06 | (0.0005) | | 0.93 | 0.0008 | |
| UL AWI 1 | 3.06 | 0.0038 | | 7.75 | 0.000045 | (2.09) | | 0.14 | | | 0.74 | 0.0017 | 0.0037 |
| UG-SGR-1 | 1.66 | 0.0020 | (0.0147) | | | 4.44 | 0.0267 | | 0.0035 | | 2.99 | (0.00052) | 0.0016 |

| 编号 | Ni | P | P2O5 | Pb | Pr | Rb | S | S (tot) | SO3 | Sb | Sc | Se | SiO2 |
|--------------|--------|--------|--------|----------|---------|--------|----------|---------|-------|-----------|---------|-----------|-------|
| NIM-GBW03104 | | | 0.043 | | | | | | 0.028 | | | | 69.63 |
| NIM-GBW07107 | 0.0037 | 0.0690 | | 0.00087 | 0.00136 | 0.0205 | (0.0066) | | | 0.000018 | 0.00185 | 0.0000075 | 59.23 |
| Z TS | 0.0170 | | 0.28 | 0.0033 | | 0.0230 | 0.022 | | | (0.00082) | 0.0022 | | 62.8 |
| SEI-CJR651 | | | 0.19 | | | | | | | | | | 21.74 |
| SARM 41 | 0.0122 | | 0.05 | (0.0030) | | 0.0059 | (0.15) | | | | | | 56.67 |
| UL AWI 1 | 0.0061 | | (0.15) | (0.0024) | 0.00093 | 0.0130 | | | | | 0.0016 | | 60.46 |

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|----------|----------|-------|--------|--|--|--|--|------|---------|---------|-----------|------|
| UG-SGR-1 | (0.0029) | 0.328 | 0.0038 | | | | | 1.53 | 0.00034 | 0.00046 | (0.00035) | 28.2 |
|----------|----------|-------|--------|--|--|--|--|------|---------|---------|-----------|------|

| 编号 | Sm | Sn | Sr | Ta | Tb | Te | Th | Ti | TiO2 | Tl | Tm | U | V |
|--------------|-----------|-----------|--------|------------|-----------|-------------|-----------|--------|-------|----------|------------|----------|--------|
| NIM-GBW03104 | | | | | | | | | 0.68 | | | | |
| NIM-GBW07107 | 0.00084 | 0.00020 | 0.0090 | 0.00009 | 0.000102 | (0.0000023) | 0.00128 | 0.3950 | | 0.000071 | 0.000043 | 0.00015 | 0.0087 |
| Z TS | (0.00229) | (0.00041) | 0.0088 | (0.000097) | (0.00024) | | (0.00091) | | 0.69 | | | (0.0022) | 0.0960 |
| SEI-CJR651 | | | | | | | | | 3.15 | | | | |
| SARM 41 | | | 0.0054 | | | | (0.0012) | | 0.55 | | | | 0.0139 |
| UL AWI 1 | 0.0007 | | 0.0108 | 0.00012 | 0.000094 | | 0.0012 | | | 0.000042 | | 0.0003 | 0.0134 |
| UG-SGR-1 | 0.00027 | (0.00019) | 0.0420 | | | | 0.00048 | | 0.253 | | (0.000017) | 0.00054 | 0.0130 |

| 编号 | W | Y | Yb | Zn | Zr |
|--------------|----------|----------|------------|--------|----------|
| NIM-GBW03104 | | | | | |
| NIM-GBW07107 | 0.000079 | 0.0026 | 0.00026 | 0.0055 | 0.0096 |
| Z TS | | 0.0150 | (0.0015) | 0.0063 | 0.0290 |
| SEI-CJR651 | | | | | |
| SARM 41 | | 0.0017 | | 0.0076 | 0.0146 |
| UL AWI 1 | | 0.0029 | 0.0003 | 0.0099 | 0.0223 |
| UG-SGR-1 | 0.00026 | (0.0013) | (0.000094) | 0.0074 | (0.0053) |

Sillimanite 硅线石

| 编号 | 描述 | 种类 | Al2O3 | CaO | Fe2O3 | K2O | Li2O | LOI | MgO | MnO | Na2O | SiO2 | TiO2 | ZrO2** | 规格 |
|-----------------|-------------|-----|-------|-------|-------|-------|--------|------|-------|--------|-------|-------|------|--------|------------|
| BAS-BCS-CRM 309 | Sillimanite | CRM | 61.1 | 0.22 | 1.51 | 0.46 | (0.01) | | 0.17 | (0.03) | 0.34 | 34.1 | 1.92 | | 100g |
| CERAM-2CAS12 | Sillimanite | RM | 63.8 | 0.25 | 0.31 | 0.13 | | 0.13 | 0.12 | | 0.15 | 33.9 | 1.31 | | 25g / 100g |
| SEI-CJR304 | Sillimanite | CRM | 55.94 | 0.427 | 0.585 | 0.329 | | 4.26 | 0.451 | | 0.273 | 35.90 | 1.33 | 0.105 | 100g |

| 编号 | 描述 | 种类 | Al2O3 | Ba | CaO | Ce | Co | Cr | Cu | FeO | Fe2O3 | Ga | K2O | MgO | MnO | 规格 |
|---------|--------------------|-----|-------|----------|------|----------|----------|----------|----------|-------|-------|----------|--------|-------|--------|------|
| SARM 44 | Sillimanite schist | CRM | 58.80 | (0.0050) | 0.14 | (0.0220) | (0.0008) | (0.0384) | (0.0010) | (1.0) | 2.06 | (0.0055) | (0.18) | (0.1) | (0.03) | 100g |

| 编号 | Mo | Na2O | Nb | Ni | P2O5 | Pb | Rb | SiO2 | Sr | Th | TiO2 | V | Y |
|---------|----------|--------|--------|----------|--------|----------|--------|-------|--------|--------|------|--------|--------|
| SARM 44 | (0.0015) | (0.05) | 0.0096 | (0.0015) | (0.10) | (0.0030) | 0.0013 | 34.84 | 0.0005 | 0.0050 | 1.83 | 0.0395 | 0.0084 |

| 编号 | Zn | Zr |
|---------|--------|--------|
| SARM 44 | 0.0271 | 0.0406 |

Silt 淤泥

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | B | Ba | Be | CaO | Cd | Ce | Co | Cr | Cs | Cu | 规格 |
|------------|------------------|-----|------------|-------|----------|-------|-------|---------|------|-----------|---------|--------|--------|---------|--------|------|
| VS-3131-85 | Carbonate silt | CRM | (0.00002) | 9.48 | (0.0016) | 0.007 | 0.062 | 0.00024 | 7.76 | (0.00023) | (0.006) | 0.0021 | 0.0068 | 0.0004 | 0.0037 | 100g |
| VS-3132-85 | Terrigenous silt | CRM | (0.000017) | 16.46 | (0.0038) | 0.007 | 0.057 | 0.00028 | 0.41 | (0.00002) | (0.006) | 0.0030 | 0.014 | 0.00041 | 0.0048 | 100g |
| VS-3133-85 | Anomalous silt | CRM | (0.00008) | 14.40 | (0.043) | 0.006 | 0.091 | 0.00037 | 2.95 | (0.00015) | 0.008 | 0.0013 | 0.0088 | 0.00058 | 0.019 | 100g |

| 编号 | Fe2O3 | Ga | Ge | K2O | La | Li | LOI | MgO | MnO | Mo | Na2O | Nb | Ni |
|------------|-------|--------|-----------|------|----------|---------|-------|------|------|---------|------|--------|--------|
| VS-3131-85 | 5.92 | 0.0011 | (0.00012) | 2.26 | (0.0038) | 0.0096 | 20.10 | 6.06 | 0.30 | 0.00024 | 0.53 | 0.0011 | 0.0040 |
| VS-3132-85 | 8.76 | 0.0016 | 0.00016 | 2.43 | 0.0043 | 0.00716 | 6.78 | 1.60 | 0.13 | 0.00025 | 1.61 | 0.0013 | 0.0072 |

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|------------|-------------|-----------|-----------|----------|-----------|-----------|-------------|-----------|-----------|-------------|----------|----------|-----------|
| VS-3133-85 | 5.45 | 0.0016 | 0.00014 | 3.56 | 0.0061 | 0.0037 | 6.39 | 2.54 | 0.087 | 0.0010 | 2.33 | 0.0017 | 0.0036 |
| 编号 | P2O5 | Pb | Rb | S | Sb | Sc | SiO2 | Sn | Sr | TiO2 | V | Y | Yb |
| VS-3131-85 | 0.13 | 0.0020 | 0.0061 | (0.037) | | 0.0011 | 47.0 | 0.0005 | 0.025 | 0.50 | 0.011 | 0.0022 | (0.00028) |
| VS-3132-85 | 0.19 | 0.0023 | 0.0077 | (0.027) | (0.00019) | 0.0020 | 60.54 | 0.00039 | 0.013 | 0.98 | 0.018 | 0.0030 | 0.00043 |
| VS-3133-85 | 0.18 | 0.0058 | 0.012 | (0.10) | (0.0015) | 0.0017 | 60.85 | 0.0005 | 0.028 | 0.62 | 0.011 | 0.0026 | 0.00033 |
| 编号 | Zn | Zr | | | | | | | | | | | |
| VS-3131-85 | 0.005 | 0.013 | | | | | | | | | | | |
| VS-3132-85 | 0.012 | 0.022 | | | | | | | | | | | |
| VS-3133-85 | 0.009 | 0.023 | | | | | | | | | | | |



Slate板岩

| 编号 | 描述 | 种类 | Ag | Al2O3 | As | Au (ppm) | Ba | Be | Bi | C | CO2 | CaO | Cd | Ce | 规格 |
|-----------|-------|-----|-------------|-------|---------|-----------|--------|----------|------------|----------|---------|-------|-------------|---------|------|
| Z TB2 | Slate | CRM | | 20.5 | | | 0.0649 | | | | | 0.20 | | | 50g |
| GSJ-JSI-1 | Slate | CRM | (0.0000119) | 17.60 | 0.00149 | (0.00058) | 0.0305 | 0.000228 | (0.000053) | (0.9213) | (0.769) | 1.479 | (0.0000118) | 0.00606 | 100g |

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|-----------|-------|-----|------------|-------|---------|-----------|--------|----------|----------|---------|-------|-------------|---------|------|
| GSJ-JSI-2 | Slate | CRM | (0.000061) | 18.17 | 0.00114 | (0.00092) | 0.0302 | 0.000268 | (1.1250) | (1.236) | 1.885 | (0.0000111) | 0.00696 | 100g |
| VB 8-3-05 | Slate | CRM | | 12.91 | | | | | | | 16.44 | | | 100g |

| 编号 | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | F | FeO | Fe2O3 | Fe (tot)* | Ga |
|-----------|-----------|---------|---------|----------|---------|------------|------------|----------|--------|-------|-------|-----------|-----------|
| Z TB2 | | 0.0014 | 0.0092 | 0.0011 | 0.0049 | | | | | 5.4 | | 6.95 | |
| GSJ-JSI-1 | (0.00215) | 0.00155 | 0.00609 | 0.000760 | 0.00408 | (0.000511) | (0.000115) | 0.000122 | 0.0598 | 4.523 | 1.875 | 6.764 | (0.00207) |
| GSJ-JSI-2 | (0.00185) | 0.00157 | 0.00647 | 0.000824 | 0.00445 | 0.000471 | (0.000224) | 0.000114 | 0.0678 | 5.048 | 0.959 | 6.650 | (0.00228) |
| VB 8-3-05 | | | | | | | | | | | 5.29 | | |

| 编号 | Gd | H2O- | H2O+ | Hf | Hg (ppm) | Ho | K2O | La | Li | LOI | Lu | MgO | MnO |
|-----------|------------|-------|-------|----------|----------|-------------|-------|---------|-----------|------|-----------|-------|--------|
| Z TB2 | | | 3.6 | | | | 3.86 | | 0.0109 | 3.46 | | 1.86 | 0.047 |
| GSJ-JSI-1 | (0.000484) | 0.654 | 3.92 | 0.000463 | (0.067) | 0.0000688 | 2.845 | 0.00293 | (0.00507) | | 0.0000442 | 2.413 | 0.0599 |
| GSJ-JSI-2 | (0.000490) | 0.362 | 4.158 | 0.000554 | (0.0353) | (0.0000671) | 3.008 | 0.00327 | 0.00526 | | 0.0000404 | 2.385 | 0.0818 |
| VB 8-3-05 | | | | | | | 3.05 | | | | | 2.28 | 0.037 |

| 编号 | Mo | Na2O | Nb | Nd | Ni | P2O5 | Pb | Pd (ppm) | Pr | Pt (ppm) | Rb | S | Sb |
|-----------|-------------|-------|----------|---------|---------|-------|---------|----------|------------|----------|--------|----------|-------------|
| Z TB2 | | 1.29 | | | 0.0039 | 0.095 | | | | | 0.0185 | | |
| GSJ-JSI-1 | (0.0000823) | 2.184 | 0.000953 | 0.00288 | 0.00376 | 0.202 | 0.00174 | (0.0008) | 0.000607 | (0.0013) | 0.0117 | 0.1467 | (0.0000933) |
| GSJ-JSI-2 | | 1.344 | 0.00123 | 0.00320 | 0.00406 | 0.164 | 0.00197 | (0.0013) | (0.000644) | (0.0015) | 0.0118 | (0.0579) | (0.0000907) |
| VB 8-3-05 | | 0.57 | | | | | | | | | | 2.22 | |

| 编号 | Sc | Se | SiO2 | Sm | Sn | Sr | Ta | Tb | Th | TiO2 | Tl | Tm | U |
|-----------|---------|-------------|-------|----------|------------|--------|-----------|-----------|----------|-------|-------------|------------|----------|
| Z TB2 | | | 60.4 | | 0.0005 | 0.0159 | | | | 0.93 | | | |
| GSJ-JSI-1 | 0.00167 | (0.0000588) | 59.47 | 0.000602 | (0.000250) | 0.0193 | 0.0000842 | 0.0000717 | 0.000997 | 0.725 | (0.0000633) | (0.000027) | 0.000263 |
| GSJ-JSI-2 | 0.00168 | (0.0000346) | 59.45 | 0.000595 | (0.000703) | 0.0230 | 0.000104 | 0.0000727 | 0.00115 | 0.754 | | | 0.000292 |
| VB 8-3-05 | | | 37.0 | | | | | | | 0.75 | | | |

| 编号 | V | W | Y | Yb | Zn | Zr |
|-----------|--------|------------|---------|----------|--------|--------|
| Z TB2 | 0.0096 | | | 0.00038 | 0.0094 | 0.0180 |
| GSJ-JSI-1 | 0.0131 | (0.000247) | 0.00300 | 0.000281 | 0.0108 | 0.0174 |
| GSJ-JSI-2 | 0.0122 | (0.000170) | 0.00313 | 0.000315 | 0.0101 | 0.0191 |
| VB 8-3-05 | | | | | | |

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Steatite滑石

| 编号 | 描述 | 种类 | Al ₂ O ₃ | CaO | Fe ₂ O ₃ | K ₂ O | LOI | MgO | Na ₂ O | SiO ₂ | TiO ₂ | 规格 |
|--------------|----------|----|--------------------------------|-------|--------------------------------|------------------|------|-------|-------------------|------------------|------------------|------------|
| CERAM-2CAS14 | Steatite | RM | 0.149 | 0.249 | 0.314 | 0.002 | 5.10 | 31.28 | 0.008 | 62.7 | 0.005 | 25g / 100g |

Syenite正长岩

| 编号 | 描述 | 种类 | Al ₂ O ₃ | CO ₂ | CaO | FeO | Fe ₂ O ₃ | H ₂ O+ | K ₂ O | LOI | MgO | MnO | Na ₂ O | P ₂ O ₅ | S | 规格 |
|------------------|-------------------|-----|--------------------------------|-----------------|------|------|--------------------------------|-------------------|------------------|------|-------|-------|-------------------|-------------------------------|---------|------|
| BAS-BCS-CRM 201A | Nepheline Syenite | RM | 23.54 | | 1.07 | | 0.12 | | 8.90 | 0.76 | 0.025 | | 7.53 | 0.025 | | 100g |
| NCS DC60125 | Nepheline Syenite | CRM | 20.05 | | 0.52 | 0.28 | 1.37 | 2.34 | 5.06 | 2.37 | | 0.050 | 8.97 | 0.020 | (0.011) | 50g |
| NCS DC60126 | Nepheline Syenite | CRM | 29.67 | 2.97 | 5.98 | 1.24 | 0.33 | 1.78 | 4.72 | | 0.92 | 0.031 | 12.59 | 0.072 | (0.064) | 50g |

| 编号 | SiO ₂ | TiO ₂ |
|------------------|------------------|------------------|
| BAS-BCS-CRM 201A | 57.3 | 0.05 |
| NCS DC60125 | 60.64 | 0.12 |
| NCS DC60126 | 39.42 | 0.14 |

| 编号 | 描述 | 种类 | Ag | Al | Al ₂ O ₃ | As | B | Ba | Be | Bi | Br | C | C (org) | CO ₂ | Ca | 规格 |
|----------------|----------------------------|-----|------------|------|--------------------------------|------------|-----------|---------|------------|-------------|----------|----------|---------|-----------------|------|------|
| NCS DC71301 | Nepheline Syenite | CRM | (0.000033) | | 17.72 | 0.000627 | 0.00318 | 0.0251 | 0.00172 | 0.000037 | 0.000121 | | (0.093) | 0.26 | | 70g |
| GSJ-JSY-1 | Nepheline Syenite | CRM | | | 23.17 | (0.000090) | (0.00145) | 0.00157 | (0.000080) | (0.0000009) | | (0.0340) | | | | 100g |
| SARM 2 | Syenite | CRM | | | 17.34 | | | | | | | | | 0.09 | | 100g |
| UG-STM-2 | Syenite | CRM | (0.00012) | 9.72 | 18.4 | | (0.00054) | 0.0639 | 0.00097 | | | | | | 0.78 | 50g |
| CGL-USZ45-2007 | Nepheline Syenite (CGL 00) | CRM | | | 22.58 | 0.00238 | | 0.0447 | | | | | | (1.16) | | 100g |
| CGL-USZ54-2011 | Nepheline syenite (CGL 01) | CRM | | | 24.59 | | | 0.1305 | (0.000186) | | | | | | | 100g |
| VS-6104-91 | Syenite | CRM | (0.000003) | | 16.68 | (0.0012) | (0.0007) | 0.69 | 0.00019 | | | | | (0.20) | | 100g |

| 编号 | CaO | Cd | Ce | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | F | Fe (tot) |
|----------------|------|----------|----------|----------|------------|---------|------------|----------|------------|------------|------------|--------|----------|
| NCS DC71301 | 1.39 | 0.000007 | 0.0242 | 0.059 | 0.000459 | 0.00036 | 0.000205 | 0.00118 | 0.000470 | 0.000248 | 0.000235 | 0.048 | |
| GSJ-JSY-1 | 0.25 | | 0.00026 | | (0.000016) | 0.00020 | 0.000069 | 0.00013 | 0.000037 | 0.000030 | 0.000016 | | |
| SARM 2 | 0.68 | | (0.0003) | | | | | | (0.00004) | | | | |
| UG-STM-2 | 1.09 | | 0.0256 | (0.0570) | | | 0.000152 | | (0.000801) | (0.00044) | 0.000345 | | 3.77 |
| CGL-USZ45-2007 | 2.28 | | 0.0308 | | (0.001003) | 0.0044 | (0.0034) | (0.0026) | | | | | (0.26) |
| CGL-USZ54-2011 | 1.98 | | 0.005824 | | (0.000533) | 0.00256 | (0.000131) | 0.000640 | (0.000449) | (0.000269) | (0.000136) | (0.10) | |
| VS-6104-91 | 6.94 | | 0.0219 | | 0.0008 | 0.0016 | (0.0001) | 0.0005 | (0.00069) | (0.00025) | 0.00045 | 0.082 | |

| 编号 | FeO | Fe ₂ O ₃ | Fe (tot)* | Ga | Gd | Ge | H ₂ O | H ₂ O+ | Hf | Hg | Ho | I | In |
|----------------|--------|--------------------------------|-----------|----------|------------|-----------|------------------|-------------------|------------|--------------|------------|----------|----------|
| NCS DC71301 | 1.23 | 6.04 | | 0.00358 | 0.00070 | 0.000095 | 2.38 | | 0.00340 | 0.0000005 | 0.000096 | 0.000014 | 0.000015 |
| GSJ-JSY-1 | | | 0.084 | 0.00235 | 0.000027 | | | | 0.00012 | (0.00000005) | 0.0000094 | | |
| SARM 2 | 0.30 | 1.11 | | | | | | | | | | | |
| UG-STM-2 | (2.08) | | 5.39 | 0.0034 | (0.0008) | | | | 0.0027 | | (0.000155) | | |
| CGL-USZ45-2007 | 0.80 | 2.63 | | 0.0023 | | | (0.17) | (0.69) | | | | | |
| CGL-USZ54-2011 | 2.60 | | 4.67 | 0.002263 | (0.000475) | | (0.104) | (0.58) | (0.000315) | | (0.000093) | | |
| VS-6104-91 | 2.51 | | 5.41 | 0.0017 | (0.0010) | (0.00012) | (0.05) | (0.28) | 0.0005 | | (0.0001) | | |

| 编号 | K | K ₂ O | La | Li | LOI | Lu | Mg | MgO | Mn | MnO | Mo | Na |
|-------------|---|------------------|---------|-----------|-----|-----------|----|-------|----|--------|-------------|----|
| NCS DC71301 | | 7.48 | 0.0149 | 0.00329 | | 0.000043 | | 0.65 | | 0.12 | 0.000026 | |
| GSJ-JSY-1 | | 4.82 | 0.00012 | (0.00153) | | 0.0000076 | | 0.016 | | 0.0024 | (0.0000048) | |

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| | | | | | | | | | | | | | |
|----------------|------|-------|----------|----------|--------|------------|----------|------|------|--------|---------|------------|------|
| SARM 2 | | 15.35 | (0.0005) | | | | | 0.46 | | | | | |
| UG-STM-2 | 3.38 | 4.07 | 0.0154 | 0.0036 | | | 0.000060 | 0.07 | 0.12 | 0.1640 | | 0.00062 | 6.61 |
| CGL-USZ45-2007 | | 9.10 | 0.0163 | 0.0054 | 3.35 | | | | 0.24 | | | (0.0011) | |
| CGL-USZ54-2011 | | 4.44 | 0.002748 | 0.006495 | 1.05 | (0.000042) | | | 0.37 | | (0.100) | (0.000151) | |
| VS-6104-91 | | 4.77 | 0.0108 | 0.00105 | (0.38) | 0.000033 | | 1.25 | | | 0.14 | 0.00011 | |

continues on next page

| 编号 | Na2O | Nb | Nd | Ni | P | P2O5 | Pb | Pr | Rb | S | SO3 | Sb | Sc |
|----------------|-------|----------|----------|------------|-------|---------|----------|------------|----------|----------|--------|------------|----------|
| NCS DC71301 | 7.16 | 0.00669 | 0.00651 | 0.000175 | | 0.018 | 0.0196 | 0.00225 | 0.0130 | 0.011 | | 0.000015 | 0.000222 |
| GSJ-JSY-1 | 10.74 | 0.000051 | 0.00012 | 0.00011 | | (0.014) | 0.00049 | 0.000032 | 0.00663 | (0.0013) | | 0.000015 | |
| SARM 2 | 0.43 | | (0.0006) | (0.0007) | | | (0.0005) | | | | | | |
| UG-STM-2 | 8.90 | 0.0267 | 0.0081 | (0.00048) | 0.073 | 0.17 | 0.0012 | 0.0025 | 0.0114 | | | | |
| CGL-USZ45-2007 | 6.78 | 0.0040 | | (0.0019) | | 0.04 | 0.0114 | | 0.0207 | | (0.28) | | |
| CGL-USZ54-2011 | 9.76 | 0.002263 | 0.002734 | (0.000340) | | 0.139 | 0.000700 | (0.000699) | 0.008536 | | | (0.000014) | 0.000276 |
| VS-6104-91 | 4.51 | 0.0020 | 0.0102 | 0.00084 | | 0.39 | 0.0021 | (0.0023) | 0.0056 | (0.017) | | | 0.00040 |

| 编号 | Se | Si | SiO2 | Sm | Sn | Sr | Ta | Tb | Te | Th | Ti | TiO2 | Tl |
|----------------|----------|------|-------|------------|-----------|---------|-------------|-------------|-----------|------------|-------|----------|------------|
| NCS DC71301 | 0.000005 | | 54.48 | 0.00097 | 0.000650 | 0.1160 | 0.000196 | 0.000102 | 0.0000012 | 0.00793 | | 0.48 | 0.000076 |
| GSJ-JSY-1 | | | 60.02 | 0.000027 | 0.000017 | 0.00193 | (0.0000013) | (0.0000057) | | 0.000023 | | (0.0015) | (0.000096) |
| SARM 2 | | | 63.63 | (0.0001) | | | | | | | | (0.04) | |
| UG-STM-2 | | 28.5 | 60.98 | 0.00120 | (0.00066) | 0.0782 | 0.0016 | (0.000138) | | 0.0027 | 0.097 | 0.16 | |
| CGL-USZ45-2007 | | | 51.88 | | | 0.01740 | | | | 0.00616 | | 0.37 | |
| CGL-USZ54-2011 | | | 52.20 | (0.000509) | | 0.0312 | (0.000121) | (0.000076) | | (0.000463) | | 0.37 | (0.000032) |
| VS-6104-91 | | | 57.86 | 0.0016 | (0.00019) | 0.52 | (0.00018) | (0.00017) | | (0.0012) | | 0.78 | |

| 编号 | Tm | U | V | W | Y | Yb | Zn | Zr |
|----------------|------------|------------|------------|------------|----------|------------|----------|----------|
| NCS DC71301 | 0.000046 | 0.00146 | 0.0179 | 0.000124 | 0.00247 | 0.000256 | 0.0112 | 0.1540 |
| GSJ-JSY-1 | 0.0000053 | 0.000020 | 0.00021 | (0.000006) | 0.00026 | 0.000041 | 0.00032 | 0.00702 |
| SARM 2 | | | | | | (0.000007) | (0.0010) | (0.0033) |
| UG-STM-2 | 0.000055 | (0.00076) | (0.00055) | (0.00022) | 0.0043 | 0.00042 | 0.0223 | 0.1280 |
| CGL-USZ45-2007 | | 0.00124 | 0.0030 | (0.0009) | 0.0023 | | 0.0098 | 0.0600 |
| CGL-USZ54-2011 | (0.000040) | (0.000159) | (0.000580) | (0.000436) | 0.002532 | 0.000266 | 0.007542 | 0.0157 |
| VS-6104-91 | (0.000045) | (0.0002) | 0.0079 | | 0.0025 | 0.00023 | 0.0109 | 0.0185 |

Talc精致滑石

| 编号 | 描述 | 种类 | Al2O3 | CaO | Fe2O3 | K2O | LOI | MgO | MnO | Na2O | P2O5 | SiO2 | TiO2 | 规格 |
|------------------|---|-----|-------|-------|-------|-------|------|-------|---------|-------|-------|-------|-------|------|
| BAS-BCS-CRM 203A | Talc | RM | 0.30 | 0.25 | 0.22 | <0.01 | 6 | 32.08 | | 0.02 | 0.13 | 59.7 | <0.01 | 100g |
| SEI-CJR901 | Talc, only available as set SEI-CJR901-R903 | CRM | 0.924 | 0.438 | 1.224 | 0.004 | 6.14 | 31.22 | 0.004 | 0.054 | 0.195 | 59.77 | 0.019 | 50g |
| SEI-CJR902 | | CRM | 0.115 | 0.342 | 0.091 | 0.003 | 6.64 | 31.97 | (0.002) | 0.006 | 0.046 | 60.77 | 0.004 | 50g |
| SEI-CJR903 | | CRM | 2.447 | 0.998 | 0.564 | 0.007 | 8.23 | 31.84 | (0.003) | 0.029 | 0.051 | 55.76 | 0.075 | 50g |

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Till

| 编号 | 描述 | 种类 | Al2O3 | As | Au | Ba | Be | Bi | Br | CaO | Ce | Co | Cr | Cs | Cu | 规格 |
|------------|------|-----|---------|----------|-----------|----------|---------|---------|---------|---------|--------|---------|---------|---------|--------|------|
| CAN-TILL-1 | Till | CRM | 13.7 | 0.0018 | 0.0000013 | 0.0702 | 0.00024 | <0.0005 | 0.00064 | 2.72 | 0.0071 | 0.0018 | 0.0065 | 0.00010 | 0.0047 | 100g |
| CAN-TILL-2 | Till | CRM | 16.0 | 0.0026 | 0.0000002 | 0.0540 | 0.00040 | <0.0005 | 0.00122 | 1.27 | 0.0098 | 0.0015 | 0.0074 | 0.0012 | 0.0150 | 100g |
| CAN-TILL-3 | Till | CRM | 12.2 | 0.0087 | 0.0000006 | 0.0489 | 0.00020 | <0.0005 | 0.00045 | 2.63 | 0.0042 | 0.0015 | 0.0123 | 0.00017 | 0.0022 | 100g |
| CAN-TILL-4 | Till | CRM | 14.4 | 0.0111 | 0.0000005 | 0.0395 | 0.00037 | 0.0040 | 0.00086 | 1.25 | 0.0078 | 0.0008 | 0.0053 | 0.0012 | 0.0237 | 100g |
| 编号 | | | Er | Eu | Fe | Fe2O3 | Hf | K2O | La | Li | LOI | Lu | MgO | Mn | MnO | |
| CAN-TILL-1 | | | 0.00036 | 0.00013 | 4.81 | 6.82 | 0.0013 | 2.22 | 0.0028 | 0.0015 | 7.3 | 0.00006 | 2.15 | 0.1420 | 0.18 | |
| CAN-TILL-2 | | | 0.00037 | 0.00010 | 3.84 | 5.39 | 0.0011 | 3.07 | 0.0044 | 0.0047 | 8.1 | 0.00006 | 1.83 | 0.0780 | 0.10 | |
| CAN-TILL-3 | | | 0.00014 | <0.00010 | 2.78 | 3.92 | 0.0008 | 2.42 | 0.0021 | 0.0021 | 4.6 | 0.00002 | 1.71 | 0.0520 | 0.06 | |
| CAN-TILL-4 | | | 0.00032 | <0.00010 | 3.97 | 5.63 | 0.0010 | 3.45 | 0.0041 | 0.0030 | 5.7 | 0.00005 | 1.25 | 0.0490 | 0.06 | |
| 编号 | | | Mo | Na2O | Nb | Nd | Ni | P | P2O5 | Pb | Rb | S | Sb | Sc | SiO2 | |
| CAN-TILL-1 | | | 0.0002 | 2.71 | 0.0010 | 0.0026 | 0.0024 | 0.0930 | 0.22 | 0.0022 | 0.0044 | <0.05 | 0.00078 | 0.0013 | 60.9 | |
| CAN-TILL-2 | | | 0.0014 | 2.19 | 0.0020 | 0.0036 | 0.0032 | 0.0750 | 0.17 | 0.0031 | 0.0143 | <0.05 | 0.00008 | 0.0012 | 60.8 | |
| CAN-TILL-3 | | | 0.0002 | 2.64 | 0.0007 | 0.0016 | 0.0039 | 0.0490 | 0.11 | 0.0026 | 0.0055 | <0.05 | 0.00009 | 0.0010 | 69.1 | |
| CAN-TILL-4 | | | 0.0016 | 2.46 | 0.0015 | 0.0030 | 0.0017 | 0.0880 | 0.20 | 0.0050 | 0.0161 | 0.08 | 0.00010 | 0.0010 | 65.0 | |
| 编号 | | | Sm | Sr | Ta | Tb | Th | Ti | TiO2 | U | V | W | Y | Yb | Zn | |
| CAN-TILL-1 | | | 0.00059 | 0.0291 | 0.00007 | 0.00011 | 0.00056 | 0.5990 | 0.98 | 0.00022 | 0.0099 | <0.0001 | 0.0038 | 0.00039 | 0.0098 | |
| CAN-TILL-2 | | | 0.00074 | 0.0144 | 0.00019 | 0.00012 | 0.00184 | 0.5300 | 0.88 | 0.00057 | 0.0077 | 0.0005 | 0.0040 | 0.00037 | 0.0130 | |
| CAN-TILL-3 | | | 0.00033 | 0.0300 | <0.00005 | <0.00005 | 0.00046 | 0.2910 | 0.49 | 0.00021 | 0.0062 | <0.0001 | 0.0017 | 0.00015 | 0.0056 | |
| CAN-TILL-4 | | | 0.00061 | 0.0109 | 0.00016 | 0.00011 | 0.00174 | 0.4840 | 0.81 | 0.00050 | 0.0067 | 0.0204 | 0.0033 | 0.00034 | 0.0070 | |
| 编号 | | | Zr | | | | | | | | | | | | | |
| CAN-TILL-1 | | | 0.0502 | | | | | | | | | | | | | |
| CAN-TILL-2 | | | 0.0390 | | | | | | | | | | | | | |
| CAN-TILL-3 | | | 0.0230 | | | | | | | | | | | | | |
| CAN-TILL-4 | | | 0.0385 | | | | | | | | | | | | | |

Wollastonite 硅灰石

| 编号 | 描述 | 种类 | Al2O3 | CaO | FeO | Fe2O3 | K2O | LOI | MgO | MnO | Na2O | P2O5 | S | SiO2 | TiO2 | 规格 |
|-------------|--------------|-----|-------|-------|------|-------|------|------|------|-------|-------|-------|---------|-------|-------|-----|
| NCS DC60124 | Wollastonite | CRM | 0.39 | 40.39 | 0.28 | 0.10 | 0.14 | 6.93 | 0.95 | 0.096 | 0.052 | 0.052 | (0.010) | 50.50 | 0.022 | 50g |

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Zeolite沸石

| 编号 | 描述 | 种类 | Al2O3 | As | Ba | Be | Bi | CaO | Cd | Ce | Co | Cr | Cs | Cu | Dy | 规格 |
|----------------|-------------------|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----|
| CGL-USZ49-2009 | Zeolite (CGL 010) | CRM | 12.98 | 0.00605 | 0.0371 | (0.000275) | (0.00117) | 1.34 | (0.000785) | (0.00748) | 0.00203 | 0.00127 | 0.000473 | 0.00793 | (0.000346) | 70g |
| 编号 | | | Er | Eu | Fe (tot)* | Ga | Gd | Hf | Hg | Ho | K2O | La | Li | LOI | Lu | |
| CGL-USZ49-2009 | | | (0.000183) | (0.000050) | 1.27 | 0.00138 | (0.000381) | (0.000538) | (0.000185) | (0.000066) | 3.19 | 0.00372 | (0.000607) | 8.80 | (0.000027) | |
| 编号 | | | MgO | MnO | Mo | Na2O | Nb | Nd | Ni | P2O5 | Pb | Pr | Rb | Sb | Sc | |
| CGL-USZ49-2009 | | | 0.573 | 0.033 | (0.000043) | 3.44 | 0.00141 | 0.00273 | 0.00146 | 0.032 | 0.00842 | (0.000797) | 0.0106 | (0.00509) | 0.000327 | |
| 编号 | | | SiO2 | Sm | Sn | Sr | Ta | Tb | Th | TiO2 | Tm | U | V | W | Y | |
| CGL-USZ49-2009 | | | 67.44 | (0.000482) | (0.000227) | 0.0635 | (0.000116) | (0.00059) | 0.00172 | 0.158 | (0.000027) | 0.000309 | 0.00423 | (0.000152) | 0.00186 | |
| 编号 | | | Yb | Zn | Zr | | | | | | | | | | | |
| CGL-USZ49-2009 | | | (0.000181) | 0.00793 | 0.0177 | | | | | | | | | | | |

X-Ray Diffraction (XRD)X衍射标样

| 编号 | 描述 | 种类 | Certified lattice parameter (22°C) | 规格 |
|-----------|--------------------------------|----|------------------------------------|------|
| NIST-640D | line position + line shape CRM | | 0.543123 nm | 7.5g |

Informational values for peak positions

Cu K I=0.15405929nm

| h | k | l | 2θ, degrees |
|---|---|---|-------------|
| 1 | 1 | 1 | 28.441 |
| 2 | 2 | 0 | 47.300 |
| 3 | 1 | 1 | 56.119 |
| 4 | 0 | 0 | 69.126 |
| 3 | 3 | 1 | 76.371 |
| 4 | 2 | 2 | 88.024 |
| 5 | 1 | 1 | 94.946 |
| 4 | 4 | 0 | 106.700 |
| 5 | 3 | 1 | 114.082 |
| 6 | 2 | 0 | 127.532 |
| 5 | 3 | 3 | 136.877 |

Informational values for particle size distribution

| %< | μm |
|----|------|
| 10 | 2.44 |
| 50 | 4.10 |
| 90 | 6.76 |

| 编号 | 描述 | 种类 | 规格 |
|----------|--|-----|---------|
| NIST-656 | Silicon nitride powder for quantitative analysis by powder diffraction | CRM | 2 x 10g |

Certified phase compositions

High alpha phase powder

High beta phase powder

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| Phase | Mass (%) | Phase | Mass (%) |
|-----------|----------|-----------|----------|
| alpha | 87.5 | alpha | 16.3 |
| beta | 3.0 | beta | 75.1 |
| amorphous | 9.5 | amorphous | 8.6 |

Certified relative intensity data

| Phase | 2θ | h | k | l | RI (α 656) | RI (β 656) |
|-------|-------|---|---|---|------------|------------|
| a | 20.59 | 1 | 0 | 1 | 100.00 | 13.41 |
| a | 22.92 | 1 | 1 | 0 | 45.11 | 5.43 |
| β | 23.38 | 1 | 1 | 0 | 1.08 | 35.26 |
| a | 26.53 | 2 | 0 | 0 | 32.54 | 3.73 |
| β | 27.07 | 0 | 2 | 0 | 3.87 | 100.00 |
| a | 31.01 | 2 | 0 | 1 | 97.68 | 12.72 |
| a | 31.82 | 0 | 0 | 2 | 11.81 | 0.95 |
| β | 33.68 | 0 | 1 | 1 | 4.09 | 89.70 |
| a | 34.58 | 1 | 0 | 2 | 82.68 | 11.33 |
| a | 35.34 | 2 | 1 | 0 | 97.88 | 12.16 |
| β | 36.05 | 1 | 2 | 0 | 5.38 | 97.45 |

The certified referency intensity ratio RIR(α/β) is 0.713

continues next page

X-Ray Diffraction (XRD) continued X衍射标样

Typical particle size data

| Particle size (μm) | Cumulative mass fraction finer than | |
|--------------------|-------------------------------------|-------|
| | α 656 | β 656 |
| 0.3 | 0.3 | 4.5 |
| 0.6 | 20.8 | 43.5 |
| 0.9 | 48.6 | 66.8 |
| 1.2 | 64.2 | 78.4 |
| 1.5 | 76.2 | 85.9 |
| 1.8 | 85.2 | 90.9 |
| 2.1 | 91.3 | 94.1 |
| 2.4 | 95.0 | 96.2 |
| 2.7 | 97.2 | 97.6 |
| 3.0 | 98.5 | 98.5 |
| 4.0 | 99.8 | 99.6 |
| 5.0 | 100.0 | 100.0 |

Informational values for Lattice parameters

| Material | Phase | a (nm) | c (nm) |
|----------|-------|-----------|-----------|
| α 656 | a | 0.7752630 | 0.5619372 |
| | β | 0.7605330 | 0.2906371 |
| β 656 | a | 0.7750945 | 0.5618661 |
| | β | 0.7602293 | 0.2906827 |

| 编号 | 描述 | 种类 | Certified lattice parameter (22°C) | 规格 |
|-----------|--------------------------------|----|------------------------------------|----|
| NIST-660B | line position + line shape CRM | | 0.415689 nm | 6g |

Informational values for peak positions
Cu K I=0.15405929nm

Informational values for particle size distribution

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| h | k | l | 2θ, degrees | %< | μm |
|---|---|---|-------------|----|-------|
| 1 | 0 | 0 | 21.358 | 10 | 4.04 |
| 1 | 1 | 0 | 30.385 | 50 | 10.09 |
| 1 | 1 | 1 | 37.442 | 90 | 23.78 |
| 2 | 0 | 0 | 43.507 | | |
| 2 | 1 | 0 | 48.958 | | |
| 2 | 1 | 1 | 53.989 | | |
| 2 | 2 | 0 | 63.219 | | |
| 3 | 0 | 0 | 67.548 | | |
| 3 | 1 | 0 | 71.746 | | |
| 3 | 1 | 1 | 75.844 | | |
| 2 | 2 | 2 | 79.870 | | |
| 3 | 2 | 0 | 83.846 | | |
| 3 | 2 | 1 | 87.792 | | |
| 4 | 0 | 0 | 95.672 | | |
| 4 | 1 | 0 | 99.643 | | |
| 3 | 3 | 0 | 103.661 | | |
| 3 | 3 | 1 | 107.749 | | |
| 4 | 2 | 0 | 111.934 | | |
| 4 | 2 | 1 | 116.245 | | |
| 3 | 3 | 2 | 120.723 | | |
| 4 | 2 | 2 | 130.409 | | |
| 5 | 0 | 0 | 135.800 | | |
| 5 | 1 | 0 | 141.775 | | |
| 5 | 1 | 1 | 148.679 | | |

X-Ray Diffraction (XRD) continued X衍射标样

| 编号 | 描述 | 种类 | Certified phase purity ass fraction (%) | | | | 规格 |
|-----------|---------------------------|-----|---|-------|-------|-------|---------|
| | | | ZnO | TiO2 | Cr2O3 | CeO2 | |
| NIST-674B | Diffraction intensity set | CRM | 95.25 | 89.47 | 95.91 | 91.36 | 4 x 10g |

Informational values for Lattice parameters

| Component | a (nm) | c (nm) |
|-----------|-----------|-----------|
| ZnO | 0.3249897 | 0.520653 |
| TiO2 | 0.4593927 | 0.2958875 |
| Cr2O3 | 0.4958979 | 1.359592 |
| CeO2 | 0.5411651 | - |

Microstructural parameters

| Component | Crystallite size L (nm) | Microstrain |
|-----------|-------------------------|-------------|
| ZnO | 201.4 | - |
| TiO2 | 281.6 | 0.064 |
| Cr2O3 | 380.2 | 0.045 |
| CeO2 | 380.6 | - |

I/Ic values

| Component | I/Ic |
|-----------|------|
| ZnO | 4.95 |
| TiO2 | 3.44 |
| Cr2O3 | 1.97 |

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| | |
|------------------|-------|
| CeO ₂ | 12.36 |
|------------------|-------|

| 编号 | 描述 | 种类 | d(001) | 规格 |
|----------|---------------------------------------|-----|-----------|------|
| NIST-675 | Low 2θ standard for X-Ray Diffraction | CRM | 9.98104 Å | 7.5g |

Information on diffraction angles, relative intensities, reference intensity ratios and lattice parameters are available in the certificate.

| 编号 | 描述 | 种类 | Phase purity (crystalline alumina) (%) | 规格 |
|-----------|---|-----|--|-----|
| NIST-676A | Alumina powder for quantitative analysis by XRD | CRM | 99.02 | 20g |

Refer to the certificate of NIST-676A for relative intensities and ancillary peak position data

Certified lattice parameters

| a (nm) | c (nm) |
|-----------|----------|
| 0.4759355 | 1.299231 |

X-Ray Diffraction (XRD) continued X衍射标样

| 编号 | 描述 | 种类 | Phase purity (crystalline cristobalite) (%) | 规格 |
|------------|-------------------------|-----|---|----|
| NIST-1879A | Respirable cristobalite | CRM | 88.2 | 5g |

Lattice parameters

| a (nm) | c (nm) |
|-----------|-----------|
| 0.4972125 | 0.6925906 |

Informational values for particle size distribution

| %< | μm |
|----|------|
| 10 | 2.29 |
| 25 | 2.77 |
| 50 | 3.48 |
| 75 | 4.48 |
| 90 | 5.61 |

| 编号 | 描述 | 种类 | Phase purity (crystalline cristobalite) (%) | 规格 |
|----|----|----|---|----|
|----|----|----|---|----|

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| | | | | |
|------------|--|-----|------|-------------|
| NIST-1976B | Instrument response standard for X-Ray Diffraction | CRM | 88.2 | Ø25.6x2.2mm |
|------------|--|-----|------|-------------|

Certified relative intensity data

| h | k | l | RI |
|---|---|----|-------|
| 0 | 1 | 2 | 23.68 |
| 1 | 0 | 4 | (100) |
| 1 | 1 | 3 | 37.33 |
| 0 | 2 | 4 | 21.05 |
| 1 | 1 | 6 | 87.79 |
| 3 | 0 | 0 | 12.63 |
| 1 | 0 | 10 | 71.20 |
| 1 | 1 | 9 | 71.20 |
| 0 | 2 | 10 | 13.27 |
| 2 | 2 | 6 | 8.17 |
| 2 | 1 | 10 | 16.32 |
| 3 | 2 | 4 | 25.46 |
| 0 | 1 | 14 | 25.46 |
| 1 | 3 | 10 | 14.86 |
| 1 | 4 | 6 | 12.68 |
| 4 | 0 | 10 | 11.04 |

Certified lattice parameters

| a (nm) | c (nm) |
|-----------|----------|
| 0.4759137 | 1.299337 |

Informational values for peak positions

Cu K $\lambda=0.15405929\text{nm}$

| h | k | l | 2 θ , degrees |
|---|---|----|----------------------|
| 0 | 1 | 2 | 25.575 |
| 1 | 0 | 4 | 35.147 |
| 1 | 1 | 0 | 37.775 |
| 0 | 0 | 6 | 41.673 |
| 1 | 1 | 3 | 43.351 |
| 0 | 2 | 4 | 52.548 |
| 1 | 1 | 6 | 57.495 |
| 0 | 1 | 8 | 61.297 |
| 2 | 1 | 4 | 66.515 |
| 3 | 0 | 0 | 68.207 |
| 1 | 0 | 10 | 76.866 |
| 1 | 1 | 9 | 77.229 |
| 0 | 2 | 10 | 88.989 |
| 0 | 0 | 12 | 90.699 |
| 2 | 2 | 6 | 95.242 |
| 2 | 1 | 10 | 101.066 |
| 3 | 2 | 4 | 116.091 |
| 0 | 1 | 14 | 116.588 |
| 1 | 3 | 10 | 127.669 |
| 3 | 0 | 12 | 129.862 |
| 2 | 0 | 14 | 131.083 |
| 1 | 4 | 6 | 136.063 |
| 1 | 1 | 15 | 142.292 |
| 4 | 0 | 10 | 145.152 |
| 1 | 2 | 14 | 150.081 |
| 1 | 0 | 16 | 150.380 |
| 3 | 3 | 0 | 152.402 |

X-Ray Diffraction (XRD) continued-X衍射标样

| 编号 | 描述 | 种类 | 规格 |
|-----------|--|-----|--------------------|
| NIST-1990 | Single crystal diffractometer alignment standard | CRM | Ø152 μm |

Certified lattice parameters

| a (nm) | c (nm) |
|----------|----------|
| 0.476080 | 1.299568 |

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Additional informational values for high angle 2 θ reflections are available in the certificate

| 编号 | 描述 | 种类 | 规格 |
|-----------|---|-----|--|
| NIST-1994 | Standard silicon single crystal wafer for crystalline orientation | CRM | please refer to certificate for crystal orientations Ø100mm |

| 编号 | 描述 | 种类 | 规格 |
|-----------|--|-----|---|
| NIST-1995 | Standard sapphire single crystal wafer for crystalline orientation | CRM | please refer to certificate for crystal orientations Ø50mm |

| 编号 | 描述 | 种类 | 规格 |
|-----------|--|-----|---|
| NIST-2000 | Calibration standard for high-resolution X-Ray Diffraction | CRM | please refer to certificate for certified values 25x25x0.725mm |

| 编号 | 描述 | 种类 | 规格 |
|-----------|--|-----|--|
| NIST-2012 | Calibration standard for high-resolution X-Ray Diffraction | CRM | please refer to certificate for certified values Ø200x0.725mm |

