

**REE, SuperCRM, Matrix: lateritic, Mineralisation Style: carbonatite**

Art. ID OREAS-460-1KG  
Unit 1000 g  
Deliverydetails No Dangerous Good /not restricted

| Text/Information | Analyte/Parameter   | CAS number  | Concentration/Value | Unit | Method                       | Source |
|------------------|---|-------------|---------------------|------|------------------------------|--------|
|                  | CeO <sub>2</sub>  |             | 0,2209              | %    | Borate / Peroxide Fusion ICP |        |
|                  | Lanthanum(III) oxide (La <sub>2</sub> O <sub>3</sub> )        |             | 0,1606              | %    | Borate / Peroxide Fusion ICP |        |
|                  | Neodymium(III) oxide (Nd <sub>2</sub> O <sub>3</sub> )        |             | 0,0911              | %    | Borate / Peroxide Fusion ICP |        |
|                  | CeO <sub>2</sub>  |             | 0,2213              | %    | Borate Fusion XRF            |        |
|                  | Fe <sub>2</sub> O <sub>3</sub>                                |             | 26,81               | %    | Borate Fusion XRF            |        |
|                  | Lanthanum(III) oxide (La <sub>2</sub> O <sub>3</sub> )        |             | 0,1626              | %    | Borate Fusion XRF            |        |
|                  | Neodymium(III) oxide (Nd <sub>2</sub> O <sub>3</sub> )        |             | 0,0958              | %    | Borate Fusion XRF            |        |
|                  | Praseodymium(III,IV) oxide (Pr <sub>6</sub> O <sub>11</sub> ) |             | 0,0289              | %    | Borate Fusion XRF            |        |
|                  | Loss on Ignition (L.O.I.) (1000 °C)                           |             | 2,54                | %    | Thermogravimetry             |        |
|                  | Al <sub>2</sub> O <sub>3</sub>                                |             | 12,73               | %    | Borate / Peroxide Fusion ICP |        |
|                  | BaO   |             | 0,0902              | %    | Borate / Peroxide Fusion ICP |        |
|                  | Bismuth (Bi)  | [7440-69-9] | 0,000148            | %    | Borate / Peroxide Fusion ICP |        |
|                  | CaO   |             | 0,975               | %    | Borate / P                   |        |

|   |             |          |   |                                       |
|---|-------------|----------|---|---------------------------------------|
|   |             |          |   | erioxide Fu<br>sion ICP               |
| Cobalt (Co)   | [7440-48-4] | 0,000944 | % | Borate / P<br>erioxide Fu<br>sion ICP |
| Cr <sub>2</sub> O <sub>3</sub>                          |             | 0,0575   | % | Borate / P<br>erioxide Fu<br>sion ICP |
| Cesium (Cs)   |             | 0,000368 | % | Borate / P<br>erioxide Fu<br>sion ICP |
| Dy <sub>2</sub> O <sub>3</sub>                          |             | 0,00228  | % | Borate / P<br>erioxide Fu<br>sion ICP |
| Er <sub>2</sub> O <sub>3</sub>                          |             | 0,000688 | % | Borate / P<br>erioxide Fu<br>sion ICP |
| Eu <sub>2</sub> O <sub>3</sub>                          |             | 0,00263  | % | Borate / P<br>erioxide Fu<br>sion ICP |
| Fe <sub>2</sub> O <sub>3</sub>                          |             | 27,02    | % | Borate / P<br>erioxide Fu<br>sion ICP |
| Gallium (Ga)  | [7440-55-3] | 0,00338  | % | Borate / P<br>erioxide Fu<br>sion ICP |
| Gd <sub>2</sub> O <sub>3</sub>                          |             | 0,0058   | % | Borate / P<br>erioxide Fu<br>sion ICP |
| Holmium(III) oxide (Ho <sub>2</sub><br>O <sub>3</sub> ) |             | 0,000318 | % | Borate / P<br>erioxide Fu<br>sion ICP |
| Potassium oxide (K <sub>2</sub> O)                      |             | 1,48     | % | Borate / P<br>erioxide Fu<br>sion ICP |
| Lithium (Li)  | [7439-93-2] | 0,00196  | % | Borate / P<br>erioxide Fu<br>sion ICP |

|   |             |          |   |                                      |
|---|-------------|----------|---|--------------------------------------|
| Lutetium(III) oxide (Lu<br>2O <sub>3</sub> )                      |             | 0,000059 | % | Borate / P<br>eroxide Fu<br>sion ICP |
| Magnesium oxide (MgO)   | [1309-48-4] | 1,25     | % | Borate / P<br>eroxide Fu<br>sion ICP |
| Manganese oxide (MnO)   |             | 0,0466   | % | Borate / P<br>eroxide Fu<br>sion ICP |
| Molybdenum (Mo)   | [7439-98-7] | 0,00252  | % | Borate / P<br>eroxide Fu<br>sion ICP |
| Niobium(V) oxide (Nb <sub>2</sub> O <sub>5</sub><br>)             |             | 0,0998   | % | Borate / P<br>eroxide Fu<br>sion ICP |
| Nickel oxide (NiO)  |             | 0,0068   | % | Borate / P<br>eroxide Fu<br>sion ICP |
| Phosphorous(V) oxide (P<br>2O <sub>5</sub> )                      |             | 0,455    | % | Borate / P<br>eroxide Fu<br>sion ICP |
| Lead oxide (PbO)  |             | 0,0072   | % | Borate / P<br>eroxide Fu<br>sion ICP |
| Praseodymium(III,IV) ox<br>ide (Pr <sub>6</sub> O <sub>11</sub> ) |             | 0,0294   | % | Borate / P<br>eroxide Fu<br>sion ICP |
| Rubidium (Rb)   | [7440-17-7] | 0,0075   | % | Borate / P<br>eroxide Fu<br>sion ICP |
| Antimony (Sb)   | [7440-36-0] | 0,000371 | % | Borate / P<br>eroxide Fu<br>sion ICP |
| Silicon dioxide (SiO <sub>2</sub> )                               | [7631-86-9] | 49,8     | % | Borate / P<br>eroxide Fu<br>sion ICP |
| Samarium(III) oxide (Sm<br>2O <sub>3</sub> )                      |             | 0,0125   | % | Borate / P<br>eroxide Fu             |

|   |              |          |   |                              |
|---|--------------|----------|---|------------------------------|
|   |              |          |   | sion ICP                     |
| Tin dioxide (SnO <sub>2</sub> )                         |              | 0,00204  | % | Borate / Peroxide Fusion ICP |
| Strontium oxide (SrO)                                   |              | 0,036    | % | Borate / Peroxide Fusion ICP |
| Tantalum(V) oxide (Ta <sub>2</sub> O <sub>5</sub> )     |              | 0,00168  | % | Borate / Peroxide Fusion ICP |
| Terbium(III,IV) oxide (Tb <sub>4</sub> O <sub>7</sub> ) |              | 0,00057  | % | Borate / Peroxide Fusion ICP |
| Thorium dioxide (ThO <sub>2</sub> )                     |              | 0,0132   | % | Borate / Peroxide Fusion ICP |
| Titanium dioxide (TiO <sub>2</sub> )                    | [13463-67-7] | 2        | % | Borate / Peroxide Fusion ICP |
| Thulium(III) oxide (Tm <sub>2</sub> O <sub>3</sub> )    |              | 0,00008  | % | Borate / Peroxide Fusion ICP |
| Vanadium oxide (V <sub>2</sub> O <sub>5</sub> )         |              | 0,0456   | % | Borate / Peroxide Fusion ICP |
| Tungsten trioxide (WO <sub>3</sub> )                    |              | < 0,0008 | % | Borate / Peroxide Fusion ICP |
| Yttrium(III) oxide (Y <sub>2</sub> O <sub>3</sub> )     |              | 0,0076   | % | Borate / Peroxide Fusion ICP |
| Ytterbium(III) oxide (Yb <sub>2</sub> O <sub>3</sub> )  |              | 0,000445 | % | Borate / Peroxide Fusion ICP |
| Zinc oxide (ZnO)  | [1314-13-2]  | 0,015    | % | Borate / Peroxide Fusion ICP |
| Silver (Ag)   | [7440-22-4]  | < 0,0001 | % | 4-Acid Dig                   |

|                 |             |           |   |  |            |
|-----------------|-------------|-----------|---|--|------------|
|                 |             |           |   |  | estion     |
| Aluminium (Al)  | [7429-90-5] | 6,55      | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Arsenic (As)    | [7440-38-2] | 0,0053    | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Barium (Ba)     | [7440-39-3] | 0,0815    | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Bismuth (Bi)    | [7440-69-9] | 0,000144  | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Calcium (Ca)    | [7440-70-2] | 0,701     | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Cadmium (Cd)    | [7440-43-9] | < 0,00001 | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Cerium (Ce)     | [7440-45-1] | 0,1853    | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Cobalt (Co)     | [7440-48-4] | 0,001     | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Chromium (Cr)   | [7440-47-3] | 0,0347    | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Cesium (Cs)     |             | 0,000378  | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Copper (Cu)     | [7440-50-8] | 0,00417   | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Dysprosium (Dy) | [7429-91-6] | 0,0018    | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Erbium (Er)     | [7440-52-0] | 0,000465  | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Europium (Eu)   | [7440-53-1] | 0,00231   | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Iron (Fe)       | [7439-89-6] | 18,56     | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Gallium (Ga)    | [7440-55-3] | 0,0033    | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Gadolinium (Gd) | [7440-54-2] | 0,00482   | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Holmium (Ho)    | [7440-60-0] | 0,000237  | % |  | 4-Acid Dig |
|                 |             |           |   |  | estion     |
| Indium (In)     | [7440-74-6] | 0,000031  | % |  | 4-Acid Dig |

|                   |             |             |   |            |        |
|-------------------|-------------|-------------|---|------------|--------|
|                   |             |             |   |            | estion |
| Potassium (K)     | [7440-09-7] | 1,25        | % | 4-Acid Dig | estion |
| Lanthanum (La)    | [7439-91-0] | 0,1298      | % | 4-Acid Dig | estion |
| Lithium (Li)      | [7439-93-2] | 0,00183     | % | 4-Acid Dig | estion |
| Lutetium (Lu)     | [7439-94-3] | 0,000036    | % | 4-Acid Dig | estion |
| Magnesium (Mg)    | [7439-95-4] | 0,724       | % | 4-Acid Dig | estion |
| Manganese (Mn)    | [7439-96-5] | 0,0307      | % | 4-Acid Dig | estion |
| Molybdenum (Mo)   | [7439-98-7] | 0,00254     | % | 4-Acid Dig | estion |
| Sodium (Na)       | [7440-23-5] | 0,133       | % | 4-Acid Dig | estion |
| Neodymium (Nd)    | [7440-00-8] | 0,0792      | % | 4-Acid Dig | estion |
| Nickel (Ni)       | [7440-02-0] | 0,0062      | % | 4-Acid Dig | estion |
| Phosphorus (P)    | [7723-14-0] | 0,193       | % | 4-Acid Dig | estion |
| Lead (Pb)         | [7439-92-1] | 0,0065      | % | 4-Acid Dig | estion |
| Praseodymium (Pr) | [7440-10-0] | 0,024       | % | 4-Acid Dig | estion |
| Rubidium (Rb)     | [7440-17-7] | 0,0076      | % | 4-Acid Dig | estion |
| Rhenium (Re)      | [7440-15-5] | < 0,0000004 | % | 4-Acid Dig | estion |
| Sulfur (S)        | [7704-34-9] | 0,0291      | % | 4-Acid Dig | estion |
| Antimony (Sb)     | [7440-36-0] | 0,00034     | % | 4-Acid Dig | estion |
| Scandium (Sc)     | [7440-20-2] | 0,00279     | % | 4-Acid Dig | estion |
| Selenium (Se)     | [7782-49-2] | < 0,0005    | % | 4-Acid Dig | estion |

|                |              |          |   |            |        |
|----------------|--------------|----------|---|------------|--------|
|                |              |          |   |            | estion |
| Samarium (Sm)  | [7440-19-9]  | 0,0101   | % | 4-Acid Dig | estion |
| Tin (Sn)       | [7440-31-5]  | 0,00133  | % | 4-Acid Dig | estion |
| Strontium (Sr) | [7440-24-6]  | 0,0306   | % | 4-Acid Dig | estion |
| Tantalum (Ta)  | [7440-25-7]  | 0,00115  | % | 4-Acid Dig | estion |
| Terbium (Tb)   | [7440-27-9]  | 0,00046  | % | 4-Acid Dig | estion |
| Tellurium (Te) | [13494-80-9] | 0,000021 | % | 4-Acid Dig | estion |
| Titanium (Ti)  | [7440-32-6]  | 0,731    | % | 4-Acid Dig | estion |
| Thallium (Tl)  | [7440-28-0]  | 0,000038 | % | 4-Acid Dig | estion |
| Thulium (Tm)   | [7440-30-4]  | 0,00005  | % | 4-Acid Dig | estion |
| Vanadium (V)   | [7440-62-2]  | 0,0238   | % | 4-Acid Dig | estion |
| Tungsten (W)   | [7440-33-7]  | 0,000314 | % | 4-Acid Dig | estion |
| Yttrium (Y)    | [7440-65-5]  | 0,00493  | % | 4-Acid Dig | estion |
| Ytterbium (Yb) | [7440-64-4]  | 0,000264 | % | 4-Acid Dig | estion |
| Zinc (Zn)      | [7440-66-6]  | 0,0117   | % | 4-Acid Dig | estion |