

## **Copper Ore, CRM, Powder 10g or 250g**

Art. ID GEO-GBM316-12  
Unit 5 x 10g

| Text/Information                        | Analyte/Parameter | CAS number  | Concentration/Value | Unit | Method                              | Source |
|-----------------------------------------|-------------------|-------------|---------------------|------|-------------------------------------|--------|
| Certified value                         | Nickel (Ni)       | [7440-02-0] | 0,0009              | %    |                                     |        |
| Certified value                         | Copper (Cu)       | [7440-50-8] | 23,821              | %    |                                     |        |
| Certified value                         | Zinc (Zn)         | [7440-66-6] | 0,048               | %    |                                     |        |
| Certified value                         | Lead (Pb)         | [7439-92-1] | 0,0236              | %    |                                     |        |
| Certified value                         | Cobalt (Co)       | [7440-48-4] | nr                  | %    |                                     |        |
| Certified value                         | Silver (Ag)       | [7440-22-4] | 0,0086              | %    |                                     |        |
| Certified value                         | Sulfur (S)        | [7704-34-9] | 25,43               | %    |                                     |        |
| Single analysis only -<br>Not certified | Antimony (Sb)     | [7440-36-0] | 0,00049             | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Arsenic (As)      | [7440-38-2] | 0,0053              | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Barium (Ba)       | [7440-39-3] | 0,03                | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Bromine (Br)      | [7726-95-6] | <0,0002             | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Cadmium (Cd)      | [7440-43-9] | <0,001              | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Cerium (Ce)       | [7440-45-1] | <0,001              | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Caesium (Cs)      | [7440-46-2] | <0,0001             | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Chromium (Cr)     | [7440-47-3] | <0,002              | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -                  | Cobalt (Co)       | [7440-48-4] | 0,00523             | %    | Neutron ac                          |        |

|                                         |                 |             |           |   |                                     |
|-----------------------------------------|-----------------|-------------|-----------|---|-------------------------------------|
| Not certified                           |                 |             |           |   | tivation a<br>nalyzes               |
| Single analysis only -<br>Not certified | Europium (Eu)   | [7440-53-1] | <0,00005  | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Gold (Au)       | [7440-57-5] | 0,00138   | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Hafnium (Hf)    | [7440-58-6] | <0,0005   | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Iridium (Ir)    | [7439-88-5] | <0,000005 | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Iron (Fe)       | [7439-89-6] | 22,2      | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Lanthanum (La)  | [7439-91-0] | 0,0003    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Lutetium (Lu)   | [7439-94-3] | <0,000005 | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Molybdenum (Mo) | [7439-98-7] | 0,0085    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Nickel (Ni)     | [7440-02-0] | <0,000527 | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Rubidium (Rb)   | [7440-17-7] | <0,002    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Samarium (Sm)   | [7440-19-9] | <0,00002  | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Scandium (Sc)   | [7440-20-2] | 0,00012   | % | Neutron ac<br>tivation a<br>nalyzes |

|                                         |                |              |          |   |                                     |
|-----------------------------------------|----------------|--------------|----------|---|-------------------------------------|
| Single analysis only -<br>Not certified | Selenium (Se)  | [7782-49-2]  | 0,055    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Sodium (Na)    | [7440-23-5]  | 0,63     | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Tantalum (Ta)  | [7440-25-7]  | <0,0002  | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Tellurium (Te) | [13494-80-9] | <0,002   | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Terbium (Tb)   | [7440-27-9]  | <0,0001  | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Thorium (Th)   | [7440-29-1]  | <0,00005 | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Tin (Sn)       | [7440-31-5]  | <0,02    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Tungsten (W)   | [7440-33-7]  | <0,0005  | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Uranium (U)    | [7440-61-1]  | <0,0001  | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Ytterbium (Yb) | [7440-64-4]  | <0,0001  | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Zinc (Zn)      | [7440-66-6]  | 0,05     | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Zirconium (Zr) | [7440-67-7]  | <0,05    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Calcium (Ca)   | [7440-70-2]  | nr       | % | Neutron ac<br>tivation a            |

|                                         |                                |             |        |   |  |                             |
|-----------------------------------------|--------------------------------|-------------|--------|---|--|-----------------------------|
|                                         |                                |             |        |   |  | analyses                    |
| Single analysis only -<br>Not certified | Potassium (K)                  | [7440-09-7] | nr     | % |  | Neutron activation analyses |
| Single analysis only -<br>Not certified | Silver (Ag)                    | [7440-22-4] | 0,0088 | % |  | Neutron activation analyses |
| Single analysis only -<br>Not certified | Mercury (Hg)                   | [7439-97-6] | nr     | % |  | Neutron activation analyses |
| Single analysis only -<br>Not certified | Neodymium (Nd)                 | [7440-00-8] | nr     | % |  | Neutron activation analyses |
| Single analysis only -<br>Not certified | Strontium (Sr)                 | [7440-24-6] | nr     | % |  | Neutron activation analyses |
| Indicative value                        | Iron (Fe)                      | [7439-89-6] | 23,08  | % |  | Fusion / XRF                |
| Indicative value                        | SiO <sub>2</sub>               |             | 16,04  | % |  | Fusion / XRF                |
| Indicative value                        | Al <sub>2</sub> O <sub>3</sub> |             | 3,65   | % |  | Fusion / XRF                |
| Indicative value                        | TiO <sub>2</sub>               |             | 0,03   | % |  | Fusion / XRF                |
| Indicative value                        | MnO                            |             | 0,19   | % |  | Fusion / XRF                |
| Indicative value                        | CaO                            |             | 1,08   | % |  | Fusion / XRF                |
| Indicative value                        | Phosphorus (P)                 | [7723-14-0] | 0,03   | % |  | Fusion / XRF                |
| Indicative value                        | Sulfur (S)                     | [7704-34-9] | 25,9   | % |  | Fusion / XRF                |
| Indicative value                        | MgO                            | [1309-48-4] | 1,08   | % |  | Fusion / XRF                |
| Indicative value                        | K <sub>2</sub> O               |             | 1,21   | % |  | Fusion / XRF                |
| Indicative value                        | Na <sub>2</sub> O              |             | 0,97   | % |  | Fusion / XRF                |

