

## Gold Reference Material - Low grade Cu / Au ore

Art. ID GEO-G315-4  
Unit Powder 10g or 1 kg  
Deliverydetails No Dangerous Good /not restricted

| Text/Information                        | Analyte/Parameter | CAS number  | Concentration/Value | Unit | Method                              | Source |
|---|-------------------|-------------|---------------------|------|-------------------------------------|--------|
| Certified value                         | Gold (Au)         | [7440-57-5] | 0,000032            | %    | Fire Assay                          |        |
| Certified value                         | Gold (Au)         | [7440-57-5] | 0,000031            | %    | Aqua Regia                          |        |
| Single analysis only -<br>Not certified | Antimony (Sb)     | [7440-36-0] | <0,00001            | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Arsenic (As)      | [7440-38-2] | <0,0001             | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Barium (Ba)       | [7440-39-3] | 0,047               | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Bromine (Br)      | [7726-95-6] | <0,00005            | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Cadmium (Cd)      | [7440-43-9] | <0,0005             | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Cerium (Ce)       | [7440-45-1] | 0,0047              | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Caesium (Cs)      | [7440-46-2] | 0,00032             | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Chromium (Cr)     | [7440-47-3] | 0,008               | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Cobalt (Co)       | [7440-48-4] | 0,002               | %    | Neutron ac<br>tivation a<br>nalyzes |        |
| Single analysis only -<br>Not certified | Europium (Eu)     | [7440-53-1] | 0,00011             | %    | Neutron ac<br>tivation a            |        |

|   |                 |             |           |   |                             |
|---|-----------------|-------------|-----------|---|-----------------------------|
| Single analysis only -<br>Not certified | Gold (Au)       | [7440-57-5] | 0,0000339 | % | Neutron activation analyses |
| Single analysis only -<br>Not certified | Hafnium (Hf)    | [7440-58-6] | 0,0004    | % | Neutron activation analyses |
| Single analysis only -<br>Not certified | Iridium (Ir)    | [7439-88-5] | <0,000005 | % | Neutron activation analyses |
| Single analysis only -<br>Not certified | Iron (Fe)       | [7439-89-6] | 4,5       | % | Neutron activation analyses |
| Single analysis only -<br>Not certified | Lanthanum (La)  | [7439-91-0] | 0,0025    | % | Neutron activation analyses |
| Single analysis only -<br>Not certified | Lutetium (Lu)   | [7439-94-3] | 0,00003   | % | Neutron activation analyses |
| Single analysis only -<br>Not certified | Molybdenum (Mo) | [7439-98-7] | <0,0002   | % | Neutron activation analyses |
| Single analysis only -<br>Not certified | Nickel (Ni)     | [7440-02-0] | 0,0022    | % | Neutron activation analyses |
| Single analysis only -<br>Not certified | Rubidium (Rb)   | [7440-17-7] | 0,012     | % | Neutron activation analyses |
| Single analysis only -<br>Not certified | Samarium (Sm)   | [7440-19-9] | 0,00043   | % | Neutron activation analyses |
| Single analysis only -<br>Not certified | Scandium (Sc)   | [7440-20-2] | 0,00161   | % | Neutron activation analyses |
| Single analysis only -<br>Not certified | Selenium (Se)   | [7782-49-2] | <0,001    | % | Neutron activation analyses |
| Single analysis only -                  | Sodium (Na)     | [7440-23-5] | 2,34      | % | Neutron ac                  |

|   |                                |             |             |   |                                     |
|---|--------------------------------|-------------|-------------|---|-------------------------------------|
| Not certified                           |                                |             |             |   | tivation a<br>nalyzes               |
| Single analysis only -<br>Not certified | Tantalum (Ta)                  | [7440-25-7] | 0,00015     | % | 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] | 0,00165     | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Tungsten (W)                   | [7440-33-7] | <0,0001     | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Uranium (U)                    | [7440-61-1] | 0,0008      | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Ytterbium (Yb)                 | [7440-64-4] | 0,0002      | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Zinc (Zn)                      | [7440-66-6] | 0,0086      | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Silver (Ag)                    | [7440-22-4] | 0,0002      | % | Neutron ac<br>tivation a<br>nalyzes |
| Indicative value                        | Iron (Fe)                      | [7439-89-6] | 4,573426573 | % | Fusion / X<br>RF                    |
| Indicative value                        | SiO <sub>2</sub>               |             | 64,41       | % | Fusion / X<br>RF                    |
| Indicative value                        | Al <sub>2</sub> O <sub>3</sub> |             | 13,78       | % | Fusion / X<br>RF                    |
| Indicative value                        | TiO <sub>2</sub>               |             | 1,01        | % | Fusion / X<br>RF                    |
| Indicative value                        | MnO                            |             | 0,1         | % | Fusion / X<br>RF                    |
| Indicative value                        | CaO                            |             | 4,88        | % | Fusion / X<br>RF                    |

|                  |  |             |             |   |                  |
|------------------|--|-------------|-------------|---|------------------|
| Indicative value | Phosphorus (P)                         | [7723-14-0] | 0,054561327 | % | Fusion / X<br>RF |
| Indicative value | Sulfur (S)                             | [7704-34-9] | 0,056067281 | % | Fusion / X<br>RF |
| Indicative value | MgO                                    | [1309-48-4] | 2,63        | % | Fusion / X<br>RF |
| Indicative value | K <sub>2</sub> O                       |             | 2,47        | % | Fusion / X<br>RF |
| Indicative value | Na <sub>2</sub> O                      |             | 3,23        | % | Fusion / X<br>RF |
| Indicative value | Loss on Ignition (L.O.I<br>) (1000 °C) |             | 0,41        | % |                  |