

**Cu ore, Au <1 ppm, Au-Cu ore, Mineralisation Style: porphyry copper-gold - CERTIFIED REFERENCE MATERIAL**

Art. ID OREAS-502d-X  
Unit on request  
Deliverydetails No Dangerous Good /not restricted

Description

Certification Program includes: 1. Au by fire assay with AAS or ICP finish / 2. Au by aqua regia digestion (15-40g sample weight) with AAS or ICP finish / 3. Full elemental suite package by 4-acid digestion with ICP-OES and MS finish / 4. Full elemental suite package by aqua regia digestion with ICP-OES and MS finish

| Text/Information | Analyte/Parameter | CAS number  | Concentration/Value | Unit | Method                                       | Source |
|------------------|-------------------|-------------|---------------------|------|--|--------|
|                  | Gold (Au)         | [7440-57-5] | 0,499               | ppm  | Pb Fire Assay                                |        |
|                  | Copper (Cu)       | [7440-50-8] | 0,776               | %    | 4-Acid Digestion                             |        |
|                  | Molybdenum (Mo)   | [7439-98-7] | 249                 | ppm  | 4-Acid Digestion                             |        |
|                  | Gold (Au)         | [7440-57-5] | 0,503               | ppm  | Aqua Regia Digestion (sample weights 10-50g) |        |
|                  | Silver (Ag)       | [7440-22-4] | 1,76                | ppm  | 4-Acid Digestion                             |        |
|                  | Aluminium (Al)    | [7429-90-5] | 7,7                 | %    | 4-Acid Digestion                             |        |
|                  | Arsenic (As)      | [7440-38-2] | 40,3                | ppm  | 4-Acid Digestion                             |        |
|                  | Barium (Ba)       | [7440-39-3] | 811                 | ppm  | 4-Acid Digestion                             |        |
|                  | Beryllium (Be)    | [7440-41-7] | 2,07                | ppm  | 4-Acid Digestion                             |        |
|                  | Bismuth (Bi)      | [7440-69-9] | 2,2                 | ppm  | 4-Acid Digestion                             |        |
|                  | Calcium (Ca)      | [7440-70-2] | 1,93                | %    | 4-Acid Digestion                             |        |
|                  | Cadmium (Cd)      | [7440-43-9] | 0,96                | ppm  | 4-Acid Digestion                             |        |

|                 |             |       |     |                  |
|-----------------|-------------|-------|-----|------------------|
| Cerium (Ce)     | [7440-45-1] | 56    | ppm | 4-Acid Digestion |
| Cobalt (Co)     | [7440-48-4] | 15,2  | ppm | 4-Acid Digestion |
| Chromium (Cr)   | [7440-47-3] | 40,4  | ppm | 4-Acid Digestion |
| Caesium (Cs)    | [7440-46-2] | 7,51  | ppm | 4-Acid Digestion |
| Dysprosium (Dy) | [7429-91-6] | 3,06  | ppm | 4-Acid Digestion |
| Erbium (Er)     | [7440-52-0] | 1,37  | ppm | 4-Acid Digestion |
| Europium (Eu)   | [7440-53-1] | 1,11  | ppm | 4-Acid Digestion |
| Iron (Fe)       | [7439-89-6] | 3,7   | %   | 4-Acid Digestion |
| Gallium (Ga)    | [7440-55-3] | 18,3  | ppm | 4-Acid Digestion |
| Gadolinium (Gd) | [7440-54-2] | 4,57  | ppm | 4-Acid Digestion |
| Hafnium (Hf)    | [7440-58-6] | 1,84  | ppm | 4-Acid Digestion |
| Holmium (Ho)    | [7440-60-0] | 0,52  | ppm | 4-Acid Digestion |
| Indium (In)     | [7440-74-6] | 0,45  | ppm | 4-Acid Digestion |
| Potassium (K)   | [7440-09-7] | 2,98  | %   | 4-Acid Digestion |
| Lanthanum (La)  | [7439-91-0] | 27,7  | ppm | 4-Acid Digestion |
| Lithium (Li)    | [7439-93-2] | 38,1  | ppm | 4-Acid Digestion |
| Lutetium (Lu)   | [7439-94-3] | 0,19  | ppm | 4-Acid Digestion |
| Magnesium (Mg)  | [7439-95-4] | 0,929 | %   | 4-Acid Digestion |
| Manganese (Mn)  | [7439-96-5] | 0,037 | %   | 4-Acid Digestion |

|                   |              |       |     |                  |
|-------------------|--------------|-------|-----|------------------|
| Sodium (Na)       | [7440-23-5]  | 2,04  | %   | 4-Acid Digestion |
| Niobium (Nb)      | [7440-03-1]  | 9,72  | ppm | 4-Acid Digestion |
| Neodymium (Nd)    | [7440-00-8]  | 25,9  | ppm | 4-Acid Digestion |
| Nickel (Ni)       | [7440-02-0]  | 20,6  | ppm | 4-Acid Digestion |
| Phosphorus (P)    | [7723-14-0]  | 0,087 | %   | 4-Acid Digestion |
| Lead (Pb)         | [7439-92-1]  | 82    | ppm | 4-Acid Digestion |
| Praseodymium (Pr) | [7440-10-0]  | 6,5   | ppm | 4-Acid Digestion |
| Rubidium (Rb)     | [7440-17-7]  | 130   | ppm | 4-Acid Digestion |
| Rhenium (Re)      | [7440-15-5]  | 0,073 | ppm | 4-Acid Digestion |
| Sulfur (S)        | [7704-34-9]  | 1,19  | %   | 4-Acid Digestion |
| Antimony (Sb)     | [7440-36-0]  | 4,75  | ppm | 4-Acid Digestion |
| Scandium (Sc)     | [7440-20-2]  | 9,76  | ppm | 4-Acid Digestion |
| Selenium (Se)     | [7782-49-2]  | 7,01  | ppm | 4-Acid Digestion |
| Samarium (Sm)     | [7440-19-9]  | 5,15  | ppm | 4-Acid Digestion |
| Tin (Sn)          | [7440-31-5]  | 4,06  | ppm | 4-Acid Digestion |
| Strontium (Sr)    | [7440-24-6]  | 299   | ppm | 4-Acid Digestion |
| Tantalum (Ta)     | [7440-25-7]  | 0,83  | ppm | 4-Acid Digestion |
| Terbium (Tb)      | [7440-27-9]  | 0,59  | ppm | 4-Acid Digestion |
| Tellurium (Te)    | [13494-80-9] | 0,96  | ppm | 4-Acid Digestion |

|                |             |        |     |                      |
|----------------|-------------|--------|-----|----------------------|
| Thorium (Th)   | [7440-29-1] | 9,72   | ppm | 4-Acid Digestion     |
| Titanium (Ti)  | [7440-32-6] | 0,322  | %   | 4-Acid Digestion     |
| Thallium (Tl)  | [7440-28-0] | 0,76   | ppm | 4-Acid Digestion     |
| Thulium (Tm)   | [7440-30-4] | 0,2    | ppm | 4-Acid Digestion     |
| Uranium (U)    | [7440-61-1] | 2,93   | ppm | 4-Acid Digestion     |
| Vanadium (V)   | [7440-62-2] | 88     | ppm | 4-Acid Digestion     |
| Tungsten (W)   | [7440-33-7] | 8,62   | ppm | 4-Acid Digestion     |
| Yttrium (Y)    | [7440-65-5] | 13,7   | ppm | 4-Acid Digestion     |
| Ytterbium (Yb) | [7440-64-4] | 1,19   | ppm | 4-Acid Digestion     |
| Zinc (Zn)      | [7440-66-6] | 305    | ppm | 4-Acid Digestion     |
| Zirconium (Zr) | [7440-67-7] | 59     | ppm | 4-Acid Digestion     |
| Silver (Ag)    | [7440-22-4] | 1,7    | ppm | Aqua Regia Digestion |
| Aluminium (Al) | [7429-90-5] | 1,85   | %   | Aqua Regia Digestion |
| Arsenic (As)   | [7440-38-2] | 38,8   | ppm | Aqua Regia Digestion |
| Boron (B)      | [7440-42-8] | < 10,0 | ppm | Aqua Regia Digestion |
| Beryllium (Be) | [7440-41-7] | 1,13   | ppm | Aqua Regia Digestion |
| Bismuth (Bi)   | [7440-69-9] | 2,31   | ppm | Aqua Regia Digestion |
| Calcium (Ca)   | [7440-70-2] | 0,967  | %   | Aqua Regia Digestion |
| Cadmium (Cd)   | [7440-43-9] | 0,89   | ppm | Aqua Regia Digestion |

|                 |             |       |     |                         |
|-----------------|-------------|-------|-----|-------------------------|
| Cerium (Ce)     | [7440-45-1] | 26,5  | ppm | Aqua Regia<br>Digestion |
| Cobalt (Co)     | [7440-48-4] | 15,1  | ppm | Aqua Regia<br>Digestion |
| Chromium (Cr)   | [7440-47-3] | 44,1  | ppm | Aqua Regia<br>Digestion |
| Caesium (Cs)    | [7440-46-2] | 5,95  | ppm | Aqua Regia<br>Digestion |
| Copper (Cu)     | [7440-50-8] | 0,778 | %   | Aqua Regia<br>Digestion |
| Iron (Fe)       | [7439-89-6] | 3,53  | %   | Aqua Regia<br>Digestion |
| Gallium (Ga)    | [7440-55-3] | 8,26  | ppm | Aqua Regia<br>Digestion |
| Germanium (Ge)  | [7440-56-4] | 0,097 | ppm | Aqua Regia<br>Digestion |
| Hafnium (Hf)    | [7440-58-6] | 0,32  | ppm | Aqua Regia<br>Digestion |
| Mercury (Hg)    | [7439-97-6] | 0,062 | ppm | Aqua Regia<br>Digestion |
| Indium (In)     | [7440-74-6] | 0,45  | ppm | Aqua Regia<br>Digestion |
| Potassium (K)   | [7440-09-7] | 0,739 | %   | Aqua Regia<br>Digestion |
| Lanthanum (La)  | [7439-91-0] | 12,6  | ppm | Aqua Regia<br>Digestion |
| Lithium (Li)    | [7439-93-2] | 31,1  | ppm | Aqua Regia<br>Digestion |
| Magnesium (Mg)  | [7439-95-4] | 0,848 | %   | Aqua Regia<br>Digestion |
| Manganese (Mn)  | [7439-96-5] | 0,032 | %   | Aqua Regia<br>Digestion |
| Molybdenum (Mo) | [7439-98-7] | 240   | ppm | Aqua Regia<br>Digestion |
| Sodium (Na)     | [7440-23-5] | 0,131 | %   | Aqua Regia<br>Digestion |
| Niobium (Nb)    | [7440-03-1] | 0,68  | ppm | Aqua Regia<br>Digestion |

|                |              |         |     |                         |
|----------------|--------------|---------|-----|-------------------------|
| Nickel (Ni)    | [7440-02-0]  | 19,9    | ppm | Aqua Regia<br>Digestion |
| Phosphorus (P) | [7723-14-0]  | 0,07    | %   | Aqua Regia<br>Digestion |
| Lead (Pb)      | [7439-92-1]  | 66      | ppm | Aqua Regia<br>Digestion |
| Rubidium (Rb)  | [7440-17-7]  | 70      | ppm | Aqua Regia<br>Digestion |
| Rhenium (Re)   | [7440-15-5]  | 0,074   | ppm | Aqua Regia<br>Digestion |
| Sulfur (S)     | [7704-34-9]  | 1,15    | %   | Aqua Regia<br>Digestion |
| Antimony (Sb)  | [7440-36-0]  | 3,39    | ppm | Aqua Regia<br>Digestion |
| Scandium (Sc)  | [7440-20-2]  | 7,43    | ppm | Aqua Regia<br>Digestion |
| Selenium (Se)  | [7782-49-2]  | 6,98    | ppm | Aqua Regia<br>Digestion |
| Tin (Sn)       | [7440-31-5]  | 2,82    | ppm | Aqua Regia<br>Digestion |
| Strontium (Sr) | [7440-24-6]  | 79      | ppm | Aqua Regia<br>Digestion |
| Tantalum (Ta)  | [7440-25-7]  | < 0,010 | ppm | Aqua Regia<br>Digestion |
| Terbium (Tb)   | [7440-27-9]  | 0,4     | ppm | Aqua Regia<br>Digestion |
| Tellurium (Te) | [13494-80-9] | 0,96    | ppm | Aqua Regia<br>Digestion |
| Thorium (Th)   | [7440-29-1]  | 4,39    | ppm | Aqua Regia<br>Digestion |
| Titanium (Ti)  | [7440-32-6]  | 0,206   | %   | Aqua Regia<br>Digestion |
| Thallium (Tl)  | [7440-28-0]  | 0,46    | ppm | Aqua Regia<br>Digestion |
| Uranium (U)    | [7440-61-1]  | 2,44    | ppm | Aqua Regia<br>Digestion |
| Vanadium (V)   | [7440-62-2]  | 70      | ppm | Aqua Regia<br>Digestion |

|                |             |      |     |                         |
|----------------|-------------|------|-----|-------------------------|
| Tungsten (W)   | [7440-33-7] | 4,58 | ppm | Aqua Regia<br>Digestion |
| Yttrium (Y)    | [7440-65-5] | 9,64 | ppm | Aqua Regia<br>Digestion |
| Ytterbium (Yb) | [7440-64-4] | 0,79 | ppm | Aqua Regia<br>Digestion |
| Zinc (Zn)      | [7440-66-6] | 298  | ppm | Aqua Regia<br>Digestion |