Common Seal

GEOSTATS PTY LTD

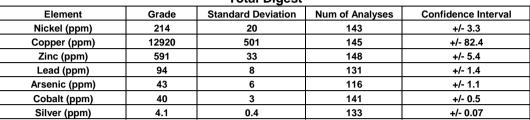
Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM914-5

Certified Control Values

Total Digest



Partial Digest

| Element | Grade | Standard Deviation | Num of Analyses | Confidence Interval | | | |
|---------------|-------|--------------------|-----------------|---------------------|--|--|--|
| Nickel (ppm) | 211 | 24 | 110 | +/- 5.6 | | | |
| Copper (ppm) | 13044 | 583 | 136 | +/- 137.2 | | | |
| Zinc (ppm) | 586 | 39 | 127 | +/- 10.4 | | | |
| Lead (ppm) | 95 | 14 | 121 | +/- 3.4 | | | |
| Arsenic (ppm) | 41 | 6 | 110 | +/- 1.5 | | | |
| Cobalt (ppm) | 39 | 4 | 97 | +/- 0.9 | | | |
| Silver (ppm) | 4.1 | 0.5 | 138 | +/- 0.13 | | | |

CRM Details

| | Neutron Activation | | Major Elements by | |
|--|-------------------------|-------|--------------------------------|------------|
| Control Statistic Details | Analysis Results (ppm, | | Fusion / XRF (%) | |
| Control statistics were produced from results accumulated in the October-2015 & | unless otherwise noted) | | | |
| October-2017 round robins. The number of results used to certify each analyte is | Antimony | 1.25 | Fe | 22.83 |
| shown in the table above. | Arsenic | 49 | SiO ₂ | 36.39 |
| | Barium | 471.5 | Al ₂ O ₃ | 8.77 |
| Material Description | Bromine | 1.3 | TiO ₂ | 0.25 |
| This material is described as a Copper rougher feed. | Cadmium | <5 | MnO | 0.18 |
| | Caesium | 1.39 | CaO | 4.45 |
| | Calcium (%) | nr | Р | 0.073 |
| Colour Designation (ISCC-NBS, SP440) | Cerium | 65 | S | 6.21 |
| This material is medium gray in colour. | Chromium | 59.5 | MgO | 1.71 |
| | Cobalt | 44 | K ₂ O | 3.04 |
| <u>Usage</u> | Europium | 1 | Na ₂ O | 2.25 |
| This product is for use in the mining industry as a reference material for | Gold (ppb) | 1425 | LOI1000 | 6.68 |
| monitoring and testing the accuracy of laboratory assaying. | Hafnium | <1 | | |
| | Iridium (ppb) | <50 | Neutron Act | ivation |
| Preparation and Packaging | Iron (%) | 23.85 | Analyses and Fusion / | |
| All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry | Lanthanum | 37.6 | XRF Analyses are | |
| material is then pulverised to better than 75 micron (nominal mean of 45 micron) | Lutetium | <0.2 | single results and are | |
| using an air classifier. The material is then homogenised and stored in a sealed, | Mercury | nr | · · | |
| stable container ready for final packaging. | Molybdenum | 113.5 | indicative only. These | |
| | Neodymium | nr | are provided | for matrix |
| Materials are statistically sampled from stores, then packaged into either heat | Nickel | 243 | identification purposes. | |
| sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready | Potassium (%) | nr | | |
| for distribution. All packaging has been chosen to ensure minimal contamination | Rubidium | 82 | 'nr': Not Rep | orted |
| from outside sources during shipment, use and storage. | Samarium | 3.965 | | |
| | Scandium | 3.8 | | |
| Assay Testwork | Selenium | 16 | | |
| All standards are tested thoroughly in the Geostats bi-annual laboratory survey. | Silver | 5 | | |
| This involves assaying by multiple laboratories from around the world. Results | Sodium (%) | 1.745 | | |
| are compiled into a comprehensive report detailing statistics for each standard. | Strontium | nr | | |
| Assay distributions are checked and processed statistically, producing | Tantalum | 0.5 | | |
| monitoring statistics for these standards. Materials are tested regularly to ensure | Tellurium | <20 | | |
| stability and homogeneity. | Terbium | <0.5 | | |
| | Thorium | 4.8 | | |
| <u>Stability</u> | Tin | <200 | | |
| This product remains stable in its original packaging, away from direct sunlight. | Tungsten | 27.7 | | |
| | Uranium | 6.1 | | |
| Material Safety | Ytterbium | 1.2 | | |
| This product is not hazardous and non-toxic. | Zinc | 612.5 | | |
| | Zirconium | <500 | | |

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