

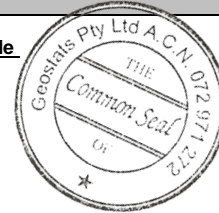
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM317-1

Certified Control Values



GBM317-1

### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	62	3	55	+/- 0.8
Copper (ppm)	626	21	70	+/- 5
Zinc (ppm)	77	6	61	+/- 1.7
Lead (ppm)	12	3	52	+/- 0.9
Arsenic (ppm)	100	4	46	+/- 1.2
Cobalt (ppm)	21	2	60	+/- 0.6
Silver (ppm)	0.6	0.1	37	+/- 0.05

### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	51	3	47	+/- 0.8
Copper (ppm)	621	29	73	+/- 6.8
Zinc (ppm)	62	5	51	+/- 1.4
Lead (ppm)	9	3	48	+/- 0.7
Arsenic (ppm)	101	7	50	+/- 2.1
Cobalt (ppm)	18	2	46	+/- 0.6
Silver (ppm)	0.5	0.1	36	+/- 0.02

### CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Major Elements by Fusion / XRF (%)	
<p><b>Control Statistic Details</b> Control statistics were produced from results accumulated in the April-2017 round robin. The number of results used to certify each analyte is shown in the table above.</p> <p><b>Material Description</b> This material is described as an Archean porphyry-style Cu/Au/Mo.</p> <p><b>Colour Designation (ISCC-NBS, SP440)</b> This material is very light gray in colour.</p> <p><b>Usage</b> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.</p> <p><b>Preparation and Packaging</b> All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry material is then pulverised to better than 75 micron (nominal mean of 45 micron) using an air classifier. The material is then homogenised and stored in a sealed, stable container ready for final packaging.</p> <p>Materials are statistically sampled from stores, then packaged into either heat sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.</p> <p><b>Assay Testwork</b> All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by multiple laboratories from around the world. Results are compiled into a comprehensive report detailing statistics for each standard. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.</p> <p><b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.</p> <p><b>Material Safety</b> This product is not hazardous and non-toxic.</p>	<p>Antimony 4.4</p> <p>Arsenic 103</p> <p>Barium 213</p> <p>Bromine &lt;2</p> <p>Cadmium &lt;10</p> <p>Caesium 4</p> <p>Calcium (%) nr</p> <p>Cerium 40</p> <p>Chromium 97</p> <p>Cobalt 22</p> <p>Europium 1.1</p> <p>Gold (ppb) 392</p> <p>Hafnium &lt;5</p> <p>Iridium (ppb) &lt;50</p> <p>Iron (%) 5</p> <p>Lanthanum 20</p> <p>Lutetium 0.2</p> <p>Mercury nr</p> <p>Molybdenum &lt;10</p> <p>Neodymium nr</p> <p>Nickel 70</p> <p>Potassium (%) nr</p> <p>Rubidium 71</p> <p>Samarium 4</p> <p>Scandium 17.3</p> <p>Selenium &lt;10</p> <p>Silver &lt;5</p> <p>Sodium (%) 2.17</p> <p>Strontium nr</p> <p>Tantalum &lt;2</p> <p>Tellurium &lt;20</p> <p>Terbium &lt;1</p> <p>Thorium 6.8</p> <p>Tin &lt;200</p> <p>Tungsten 15</p> <p>Uranium 2</p> <p>Ytterbium 1.5</p> <p>Zinc &lt;200</p> <p>Zirconium &lt;500</p>	<p>Fe 4.91</p> <p>SiO<sub>2</sub> 61.3</p> <p>Al<sub>2</sub>O<sub>3</sub> 15.22</p> <p>TiO<sub>2</sub> 0.925</p> <p>MnO 0.082</p> <p>CaO 5.72</p> <p>P 0.074</p> <p>S 0.215</p> <p>MgO 3.57</p> <p>K<sub>2</sub>O 1.33</p> <p>Na<sub>2</sub>O 2.91</p> <p>LOI1000 1.51</p>	<p>Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.</p> <p>'nr': Not Reported</p>

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