

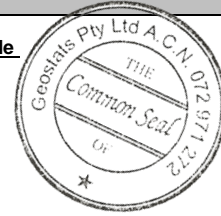
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM917-4

Certified Control Values



### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	47052	1831	56	+/- 494.8
Copper (ppm)	61310	2550	72	+/- 603.4
Zinc (ppm)	90	8	62	+/- 2
Lead (ppm)	305	23	70	+/- 5.4
Arsenic (ppm)	20377	1043	44	+/- 320.7
Cobalt (ppm)	11576	460	56	+/- 124.3
Silver (ppm)	65.7	3.7	69	+/- 0.91

### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	45440	3073	45	+/- 933.6
Copper (ppm)	61591	3134	73	+/- 736.3
Zinc (ppm)	90	14	53	+/- 3.9
Lead (ppm)	298	30	59	+/- 7.9
Arsenic (ppm)	20177	1213	53	+/- 337.6
Cobalt (ppm)	11160	1295	47	+/- 384.3
Silver (ppm)	64.3	4.9	75	+/- 1.15

### 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 October-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 a Nickel filtercake concentrate.</p> <p><b>Colour Designation (ISCC-NBS, SP440)</b> This material is moderate brown 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 nr</p> <p>Arsenic &gt;5000</p> <p>Barium nr</p> <p>Bromine nr</p> <p>Cadmium nr</p> <p>Caesium nr</p> <p>Calcium (%) nr</p> <p>Cerium nr</p> <p>Chromium nr</p> <p>Cobalt &gt;5000</p> <p>Europium nr</p> <p>Gold (ppb) nr</p> <p>Hafnium nr</p> <p>Iridium (ppb) nr</p> <p>Iron (%) nr</p> <p>Lanthanum nr</p> <p>Lutetium nr</p> <p>Mercury nr</p> <p>Molybdenum nr</p> <p>Neodymium nr</p> <p>Nickel &gt;20000</p> <p>Potassium (%) nr</p> <p>Rubidium nr</p> <p>Samarium nr</p> <p>Scandium nr</p> <p>Selenium nr</p> <p>Silver &lt;100</p> <p>Sodium (%) nr</p> <p>Strontium nr</p> <p>Tantalum nr</p> <p>Tellurium nr</p> <p>Terbium nr</p> <p>Thorium nr</p> <p>Tin nr</p> <p>Tungsten nr</p> <p>Uranium nr</p> <p>Ytterbium nr</p> <p>Zinc &lt;200</p> <p>Zirconium nr</p>	<p>Fe 34.18</p> <p>SiO<sub>2</sub> 1.03</p> <p>Al<sub>2</sub>O<sub>3</sub> 0.26</p> <p>TiO<sub>2</sub> 0.097</p> <p>MnO 0.295</p> <p>CaO 0.271</p> <p>P 0.03</p> <p>S 7.42</p> <p>MgO 0.247</p> <p>K<sub>2</sub>O 0.02</p> <p>Na<sub>2</sub>O 0.14</p> <p>LOI1000 25.87</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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Geostats Pty Ltd, Certified Geochem Base Metal Reference Material, Product Code: