

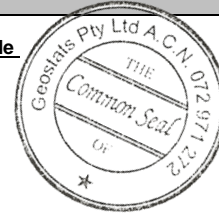
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM915-4

Certified Control Values



GBM915-4

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	118	8	64	+/- 2.1
Copper (ppm)	11835	377	66	+/- 93.5
Zinc (ppm)	10035	433	65	+/- 108.1
Lead (ppm)	4921	253	68	+/- 61.8
Arsenic (ppm)	653	26	52	+/- 7.2
Cobalt (ppm)	69	4	60	+/- 1.1
Silver (ppm)	25.7	2.0	58	+/- 0.52

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	109	8	55	+/- 2.2
Copper (ppm)	11931	366	63	+/- 93
Zinc (ppm)	10250	348	54	+/- 95.9
Lead (ppm)	4971	230	62	+/- 58.9
Arsenic (ppm)	665	38	58	+/- 10.1
Cobalt (ppm)	61	5	56	+/- 1.5
Silver (ppm)	26.7	2.7	75	+/- 0.63

CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Major Elements by Fusion / XRF (%)	
<p>Control statistics were produced from results accumulated in the October-2015 round robin. The number of results used to certify each analyte is shown in the table above.</p> <p>Material Description This material is described as a Gold ore minor Cu Pb Zn.</p> <p>Colour Designation (ISCC-NBS, SP440) This material is medium gray in colour.</p> <p>Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.</p> <p>Preparation and Packaging 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>Assay Testwork 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>Stability This product remains stable in its original packaging, away from direct sunlight.</p> <p>Material Safety This product is not hazardous and non-toxic.</p>	<p>Antimony 426</p> <p>Arsenic 682</p> <p>Barium 350</p> <p>Bromine <2</p> <p>Cadmium 20</p> <p>Caesium <1</p> <p>Calcium (%) nr</p> <p>Cerium 39.5</p> <p>Chromium 40</p> <p>Cobalt 70</p> <p>Europium 1.52</p> <p>Gold (ppb) 8470</p> <p>Hafnium <5</p> <p>Iridium (ppb) <50</p> <p>Iron (%) 8.8</p> <p>Lanthanum 21</p> <p>Lutetium 0.48</p> <p>Mercury nr</p> <p>Molybdenum 53</p> <p>Neodymium nr</p> <p>Nickel 124</p> <p>Potassium (%) nr</p> <p>Rubidium 67</p> <p>Samarium 5.3</p> <p>Scandium 22.8</p> <p>Selenium 19</p> <p>Silver 25</p> <p>Sodium (%) 2.1</p> <p>Strontium nr</p> <p>Tantalum <2</p> <p>Tellurium <20</p> <p>Terbium <1</p> <p>Thorium 9.77</p> <p>Tin <200</p> <p>Tungsten 9</p> <p>Uranium 5</p> <p>Ytterbium 3</p> <p>Zinc 10100</p> <p>Zirconium <500</p>	<p>Fe 8.811</p> <p>SiO₂ 53.59</p> <p>Al₂O₃ 12</p> <p>TiO₂ 1.69</p> <p>MnO 0.16</p> <p>CaO 5.77</p> <p>P 0.081</p> <p>S 1.994</p> <p>MgO 2.99</p> <p>K₂O 1.59</p> <p>Na₂O nr</p> <p>LOI1000 0.65</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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