

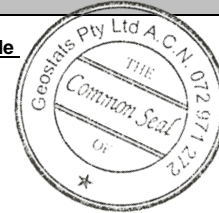
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM916-7

Certified Control Values



GBM916-7

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	769	38	140	+/- 6.3
Copper (ppm)	3170	142	156	+/- 22.5
Zinc (ppm)	90	10	134	+/- 1.7
Lead (ppm)	8	2	111	+/- 0.4
Arsenic (ppm)	31	3	106	+/- 0.6
Cobalt (ppm)	49	3	132	+/- 0.4
Silver (ppm)	0.3	nr	nr	nr

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	690	52	124	+/- 13.1
Copper (ppm)	3160	145	168	+/- 33.7
Zinc (ppm)	42	6	101	+/- 1.9
Lead (ppm)	7	2	95	+/- 0.6
Arsenic (ppm)	30	4	105	+/- 0.8
Cobalt (ppm)	46	4	110	+/- 0.9
Silver (ppm)	0.4	0.3	69	+/- 0.04

CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Major Elements by Fusion / XRF (%)
<p>Control Statistic Details Control statistics were produced from results accumulated in the October-2015 & October-2017 round robins. The number of results used to certify each analyte is shown in the table above.</p> <p>Material Description This material is described as an Acurite and Malachite, with Carbonate, Quartz, Talc and Fuchsite ex Turkey.</p> <p>Colour Designation (ISCC-NBS, SP440) This material is grayish orange 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 6.555 Arsenic 33.85 Barium 378 Bromine <2 Cadmium <10 Caesium <1 Calcium (%) nr Cerium <10 Chromium 2075 Cobalt 52.5 Europium <0.131 Gold (ppb) 9.09 Hafnium <5 Iridium (ppb) <50 Iron (%) 4.45 Lanthanum 0.505 Lutetium <0.05 Mercury nr Molybdenum <10 Neodymium nr Nickel 820 Potassium (%) nr Rubidium <20 Samarium <0.2 Scandium 3.65 Selenium <10 Silver <5 Sodium (%) 0.053 Strontium nr Tantalum <2 Tellurium <20 Terbium <1 Thorium <0.2 Tin <200 Tungsten <5 Uranium <1 Ytterbium <0.175 Zinc 100 Zirconium <500</p>	<p>Fe 4.35 SiO₂ 48.52 Al₂O₃ 0.54 TiO₂ 0.01 MnO 0.18 CaO 13.03 P 0.004 S 0.11 MgO 8.58 K₂O 0.06 Na₂O <0.01 LOI1000 19.91</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: