

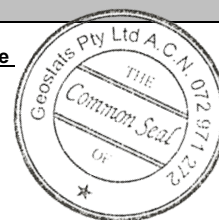
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM913-5

Certified Control Values



GBM913-5

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	24	2	64	+/- 0.5
Copper (ppm)	2880	114	74	+/- 26.6
Zinc (ppm)	3722	144	65	+/- 35.9
Lead (ppm)	243	17	62	+/- 4.3
Arsenic (ppm)	2492	101	53	+/- 28
Cobalt (ppm)	55	3	67	+/- 0.8
Silver (ppm)	0.3	nr	nr	nr

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	24	3	59	+/- 0.8
Copper (ppm)	2734	115	73	+/- 27.1
Zinc (ppm)	3719	307	69	+/- 74.3
Lead (ppm)	188	25	65	+/- 6.1
Arsenic (ppm)	2599	147	60	+/- 38.4
Cobalt (ppm)	55	3	55	+/- 0.9
Silver (ppm)	0.3	nr	nr	nr

CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Major Elements by Fusion / XRF (%)	
		Control statistics were produced from results accumulated in the October-2013 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony 6.91 Arsenic 2490 Barium 999 Bromine <0.534 Cadmium 13.1 Caesium 2.54 Calcium (%) nr Cerium 15 Chromium <28.5 Cobalt 54.8 Europium nr Gold (ppb) 4510 Hafnium 24.3 Iridium (ppb) <20 Iron (%) 3.23 Lanthanum 7.23 Lutetium 0.264 Mercury nr Molybdenum 65.2 Neodymium nr Nickel 24.5 Potassium (%) nr Rubidium <5.1 Samarium 2.64 Scandium 5.46 Selenium <3.21 Silver <1 Sodium (%) 0.046 Strontium nr Tantalum 0.248 Tellurium nr Terbium <0.119 Thorium 3.08 Tin nr Tungsten 4.28 Uranium 1.97 Ytterbium nr Zinc 3700 Zirconium nr
Material Description This material is described as a High sulphide epithermal deposit in Peru.		Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
Colour Designation (ISCC-NBS, SP440) This material is medium light gray in colour.		'nr': Not Reported	
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.			
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. 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.			
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.			
Stability This product remains stable in its original packaging, away from direct sunlight.			
Material Safety This product is not hazardous and non-toxic.			

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Geostats Pty Ltd, Certified Geochem Base Metal Reference Material, Product Code: