

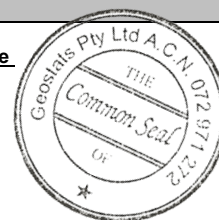
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM314-2

Certified Control Values



GBM314-2

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	29	3	64	+/- 0.8
Copper (ppm)	419	21	71	+/- 5.1
Zinc (ppm)	975	57	72	+/- 13.5
Lead (ppm)	532	25	68	+/- 6.1
Arsenic (ppm)	4912	206	60	+/- 53.6
Cobalt (ppm)	7	1	58	+/- 0.2
Silver (ppm)	3.3	0.4	63	+/- 0.11

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	28	3	56	+/- 0.9
Copper (ppm)	414	27	77	+/- 6.1
Zinc (ppm)	981	84	69	+/- 20.3
Lead (ppm)	536	27	67	+/- 6.7
Arsenic (ppm)	4944	245	60	+/- 63.8
Cobalt (ppm)	8	1	53	+/- 0.4
Silver (ppm)	3.2	0.2	56	+/- 0.06

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 April-2014 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	75.5	Fe
Material Description This material is described as an Arsenopyrite.	Arsenic	4650	SiO ₂	49.84
	Barium	<180	Al ₂ O ₃	0.92
Colour Designation (ISCC-NBS, SP440) This material is light gray in colour.	Bromine	<2.5	TiO ₂	0.08
	Cadmium	<13	MnO	0.59
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Caesium	1.8	CaO	13.45
	Calcium (%)	nr	P	0.011
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.	Cerium	<59	S	2.52
	Chromium	<140	MgO	4.21
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.	Cobalt	7	K ₂ O	0.287
	Europium	<4	Na ₂ O	0.02
Stability This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	5110	LOI1000	12.8
	Hafnium	<5	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
Material Safety This product is not hazardous and non-toxic.	Iridium (ppb)	<132	'nr': Not Reported	
	Iron (%)	7.2		
	Lanthanum	6		
	Lutetium	0.9		
	Mercury	nr		
	Molybdenum	<5		
	Neodymium	nr		
	Nickel	32		
	Potassium (%)	nr		
	Rubidium	<20		
	Samarium	1.6		
	Scandium	1.9		
	Selenium	<27.1		
	Silver	3		
	Sodium (%)	0.041		
	Strontium	nr		
	Tantalum	<0.9		
	Tellurium	nr		
	Terbium	<0.5		
	Thorium	<1.7		
	Tin	nr		
	Tungsten	<1		
	Uranium	<0.8		
	Ytterbium	<5		
	Zinc	980		
	Zirconium	nr		

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