

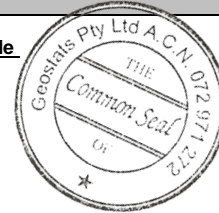
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM916-4

Certified Control Values



Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	913	44	69	+/- 10.7
Copper (ppm)	1842	74	75	+/- 17.2
Zinc (ppm)	248	22	69	+/- 5.2
Lead (ppm)	13	3	61	+/- 0.8
Arsenic (ppm)	287	22	60	+/- 5.7
Cobalt (ppm)	53	4	66	+/- 0.9
Silver (ppm)	10.9	0.8	68	+/- 0.19

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	815	71	65	+/- 17.8
Copper (ppm)	1818	81	84	+/- 17.7
Zinc (ppm)	155	16	56	+/- 4.4
Lead (ppm)	12	2	56	+/- 0.6
Arsenic (ppm)	284	18	63	+/- 4.6
Cobalt (ppm)	49	4	58	+/- 1
Silver (ppm)	10.5	0.8	77	+/- 0.18

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-2016 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	521	Fe
Material Description This material is described as a Ni / Cu Oxide.	Arsenic	295	SiO ₂	36.5
	Colour Designation (ISCC-NBS, SP440) This material is grayish orange in colour.	Barium	3122	Al ₂ O ₃
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.		Bromine	<2	TiO ₂
	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.	Cadmium	<10	MnO
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.		Caesium	1	CaO
	Stability This product remains stable in its original packaging, away from direct sunlight.	Calcium (%)	nr	P
Material Safety This product is not hazardous and non-toxic.		Cerium	<10	S
		Chromium	1456	MgO
		Cobalt	58	K ₂ O
		Europium	<1.29	Na ₂ O
		Gold (ppb)	<8.18	LOI1000
		Hafnium	<5	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.
		Iridium (ppb)	<50	'nr': Not Reported
		Iron (%)	5.2	
		Lanthanum	3.17	
		Lutetium	0.25	
		Mercury	nr	
		Molybdenum	<10	
		Neodymium	nr	
		Nickel	960	
		Potassium (%)	nr	
		Rubidium	28	
		Samarium	0.6	
		Scandium	8.7	
		Selenium	<10	
		Silver	10	
		Sodium (%)	<0.233	
		Strontium	nr	
		Tantalum	<2	
		Tellurium	<20	
		Terbium	<1	
		Thorium	<0.5	
		Tin	<200	
		Tungsten	<5	
		Uranium	<1	
		Ytterbium	<1.42	
		Zinc	280	
		Zirconium	<500	

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