

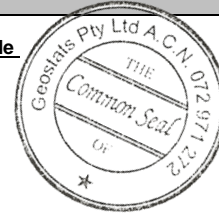
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM916-2

Certified Control Values



GBM916-2

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	223	10	65	+/- 2.4
Copper (ppm)	1675	58	75	+/- 13.4
Zinc (ppm)	8792	321	70	+/- 77.1
Lead (ppm)	1335	52	68	+/- 12.6
Arsenic (ppm)	72	6	56	+/- 1.6
Cobalt (ppm)	10	1	59	+/- 0.3
Silver (ppm)	29.0	1.4	71	+/- 0.33

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	225	15	65	+/- 3.8
Copper (ppm)	1704	68	87	+/- 14.6
Zinc (ppm)	8742	321	64	+/- 80.8
Lead (ppm)	1335	70	71	+/- 16.7
Arsenic (ppm)	69	6	59	+/- 1.6
Cobalt (ppm)	10	1	54	+/- 0.2
Silver (ppm)	28.6	1.4	78	+/- 0.32

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	10.8	Fe
Material Description This material is described as a Zn / Cu / Ag Oxide ex Armenia.	Arsenic	74.5	SiO ₂	64.45
	Colour Designation (ISCC-NBS, SP440) This material is yellowish gray in colour.	Barium	80.4	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	69.1	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
	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Chromium	<20	MgO
Cobalt		11	K ₂ O	1.64
Major Elements by Fusion / XRF (%)	Europium	<0.507	Na ₂ O	1.19
	Gold (ppb)	1420	LOI1000	5.04
Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	Hafnium	<5		
	Iridium (ppb)	<50		
'nr': Not Reported	Iron (%)	4.9		
	Lanthanum	2.56		
	Lutetium	0.14		
	Mercury	nr		
	Molybdenum	<10		
	Neodymium	nr		
	Nickel	240		
	Potassium (%)	nr		
	Rubidium	28		
	Samarium	0.9		
	Scandium	18.7		
	Selenium	<10		
	Silver	31		
	Sodium (%)	0.981		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	<1		
	Thorium	<0.5		
	Tin	<200		
	Tungsten	<5		
	Uranium	<1		
	Ytterbium	0.663		
	Zinc	9000		
	Zirconium	<500		

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