

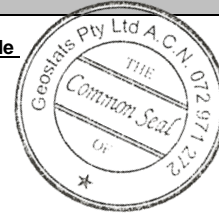
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM915-1

Certified Control Values



Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	175	9	64	+/- 2.4
Copper (ppm)	485	18	64	+/- 4.6
Zinc (ppm)	513	30	68	+/- 7.2
Lead (ppm)	135	7	60	+/- 1.8
Arsenic (ppm)	246	14	53	+/- 3.8
Cobalt (ppm)	89	5	63	+/- 1.2
Silver (ppm)	7.2	0.6	60	+/- 0.15

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	165	12	58	+/- 3.1
Copper (ppm)	481	27	74	+/- 6.4
Zinc (ppm)	483	22	62	+/- 5.6
Lead (ppm)	132	8	55	+/- 2.1
Arsenic (ppm)	242	19	61	+/- 4.8
Cobalt (ppm)	80	7	59	+/- 2
Silver (ppm)	7.3	0.5	68	+/- 0.12

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-2015 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	9.97	Fe
Material Description This material is described as a Gold Cu Pb Zn material.	Arsenic	249	SiO ₂	52.34
	Barium	310	Al ₂ O ₃	13.45
Colour Designation (ISCC-NBS, SP440) This material is pale yellowish brown in colour.	Bromine	2	TiO ₂	1.68
	Cadmium	<10	MnO	0.15
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	CaO	5.98
	Calcium (%)	nr	P	0.074
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	29.5	S	0.184
	Chromium	75	MgO	3.15
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	90	K ₂ O	0.959
	Europium	1.18	Na ₂ O	nr
Stability This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	4830	LOI1000	2.29
	Hafnium	5		
Material Safety This product is not hazardous and non-toxic.	Iridium (ppb)	<50		
	Iron (%)	11		
	Lanthanum	15		
	Lutetium	0.41		
	Mercury	nr		
	Molybdenum	<10		
	Neodymium	nr		
	Nickel	182		
	Potassium (%)	nr		
	Rubidium	55		
	Samarium	4.5		
	Scandium	22.4		
	Selenium	<10		
	Silver	6		
	Sodium (%)	1.76		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	<1		
	Thorium	11.6		
	Tin	<200		
	Tungsten	<5		
	Uranium	3		
	Ytterbium	3		
	Zinc	516		
	Zirconium	<500		

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