

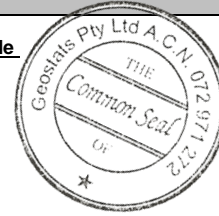
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM915-9

Certified Control Values



GBM915-9

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	196	11	131	+/- 1.8
Copper (ppm)	22714	626	131	+/- 108.7
Zinc (ppm)	19283	814	130	+/- 141.8
Lead (ppm)	9477	352	134	+/- 60.4
Arsenic (ppm)	1263	59	115	+/- 11
Cobalt (ppm)	106	8	135	+/- 1.3
Silver (ppm)	49.9	3.5	127	+/- 0.62

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	190	11	114	+/- 2.6
Copper (ppm)	22980	787	135	+/- 187.4
Zinc (ppm)	19567	785	110	+/- 196.9
Lead (ppm)	9668	323	116	+/- 88
Arsenic (ppm)	1272	70	120	+/- 16.4
Cobalt (ppm)	98	8	115	+/- 1.8
Silver (ppm)	51.2	4.5	147	+/- 0.96

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 & October-2017 round robins. The number of results used to certify each analyte is shown in the table above.	Antimony	843	Fe
Material Description This material is described as a High grade gold Cu Pb Zn ore some sulphide.	Arsenic	1320	SiO ₂	51.08
	Colour Designation (ISCC-NBS, SP440) This material is medium dark gray in colour.	Barium	331.5	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	46.25	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	39.4	S
	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Chromium	64.5	MgO
Cobalt		115	K ₂ O	1.65
Major Elements by Fusion / XRF (%)	Europium	1.33	Na ₂ O	nr
	Gold (ppb)	17450	LOI1000	2.59
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 (%)	8.95		
	Lanthanum	20.5		
Other Elements	Lutetium	0.39		
	Mercury	nr		
	Molybdenum	91		
	Neodymium	nr		
	Nickel	213.5		
	Potassium (%)	nr		
	Rubidium	75.5		
	Samarium	4.6		
	Scandium	20.35		
	Selenium	22		
	Silver	53.5		
	Sodium (%)	2.005		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	<1		
	Thorium	9.565		
	Tin	<200		
	Tungsten	15		
	Uranium	5		
	Ytterbium	2.15		
	Zinc	20100		
	Zirconium	<500		

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