

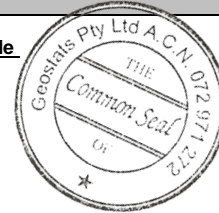
GEOSTATS PTY LTD

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)	198	10	65	+/- 2.5
Copper (ppm)	22767	585	63	+/- 148.6
Zinc (ppm)	19314	617	61	+/- 159.4
Lead (ppm)	9502	406	67	+/- 99.7
Arsenic (ppm)	1265	64	56	+/- 17.2
Cobalt (ppm)	106	8	66	+/- 1.9
Silver (ppm)	50.0	3.9	61	+/- 1.01

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	191	13	57	+/- 3.3
Copper (ppm)	22959	806	67	+/- 198.1
Zinc (ppm)	19860	835	53	+/- 232.4
Lead (ppm)	9732	307	56	+/- 83
Arsenic (ppm)	1286	77	60	+/- 20
Cobalt (ppm)	99	9	59	+/- 2.4
Silver (ppm)	51.9	4.8	72	+/- 1.13

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	805	Fe
Material Description This material is described as a High grade gold Cu Pb Zn ore some sulphide.	Arsenic	1280	SiO ₂	51.08
	Colour Designation (ISCC-NBS, SP440) This material is medium dark gray in colour.	Barium	390	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	41.5	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	36.8	S
		Chromium	70	MgO
		Cobalt	110	K ₂ O
		Europium	1.16	Na ₂ O
		Gold (ppb)	17200	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 (%)	8.7	
		Lanthanum	20	
		Lutetium	0.38	
		Mercury	nr	
		Molybdenum	81	
		Neodymium	nr	
		Nickel	207	
		Potassium (%)	nr	
		Rubidium	80	
		Samarium	4.4	
		Scandium	19.4	
		Selenium	26	
		Silver	51	
		Sodium (%)	1.96	
		Strontium	nr	
		Tantalum	<2	
		Tellurium	<20	
		Terbium	<1	
		Thorium	9.13	
		Tin	<200	
		Tungsten	17	
		Uranium	5	
		Ytterbium	2	
		Zinc	19200	
		Zirconium	<500	

20 Hines Road, O'Connor, Western Australia 6163
Phone : +61 8 9314 2566, Fax : +61 8 9314 3699
e-mail : pjh@geostats.com.au, srr@geostats.com.au
Website <http://www.geostats.com.au>

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