

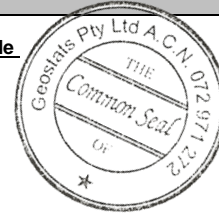
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM915-3

Certified Control Values



GBM915-3

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	51	3	55	+/- 0.9
Copper (ppm)	132	10	59	+/- 2.5
Zinc (ppm)	171	12	63	+/- 3.1
Lead (ppm)	31	5	58	+/- 1.4
Arsenic (ppm)	33	5	49	+/- 1.4
Cobalt (ppm)	40	3	57	+/- 0.7
Silver (ppm)	1.1	0.2	49	+/- 0.06

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	35	3	50	+/- 0.9
Copper (ppm)	132	13	72	+/- 3.1
Zinc (ppm)	121	8	62	+/- 2.1
Lead (ppm)	28	5	57	+/- 1.3
Arsenic (ppm)	33	4	53	+/- 1
Cobalt (ppm)	25	4	57	+/- 1.1
Silver (ppm)	1.1	0.2	51	+/- 0.05

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	1.85	Fe
Material Description This material is described as a Cu Pb Zn Materials.	Arsenic	33	SiO ₂	54.33
	Colour Designation (ISCC-NBS, SP440) This material is light gray in colour.	Barium	340	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	2	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	30.5	S
	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Chromium	90	MgO
Cobalt		43	K ₂ O	1.05
Major Elements by Fusion / XRF (%)	Europium	1.48	Na ₂ O	nr
	Gold (ppb)	650	LOI1000	0.49
Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	Hafnium	5	'nr': Not Reported	
	Iridium (ppb)	<50		
Iron (%)	8.7			
Lanthanum	15			
Lutetium	0.45			
Mercury	nr			
Molybdenum	<10			
Neodymium	nr			
Nickel	57			
Potassium (%)	nr			
Rubidium	56			
Samarium	5.2			
Scandium	26.7			
Selenium	<10			
Silver	<5			
Sodium (%)	2.2			
Strontium	nr			
Tantalum	<2			
Tellurium	<20			
Terbium	1			
Thorium	6.83			
Tin	<200			
Tungsten	<5			
Uranium	3			
Ytterbium	3			
Zinc	219			
Zirconium	<500			

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