

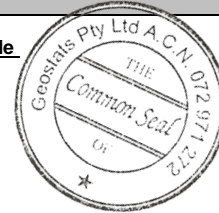
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM917-2

Certified Control Values



GBM917-2

### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	9	2	54	+/- 0.6
Copper (ppm)	31	3	57	+/- 0.8
Zinc (ppm)	121	7	66	+/- 1.7
Lead (ppm)	35	3	64	+/- 0.7
Arsenic (ppm)	57	3	48	+/- 1
Cobalt (ppm)	5	1	58	+/- 0.2
Silver (ppm)	10.3	0.9	66	+/- 0.22

### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	7	2	47	+/- 0.5
Copper (ppm)	31	4	69	+/- 1
Zinc (ppm)	109	9	64	+/- 2.3
Lead (ppm)	34	4	60	+/- 1.1
Arsenic (ppm)	57	5	56	+/- 1.5
Cobalt (ppm)	5	1	44	+/- 0.2
Silver (ppm)	10.0	0.8	72	+/- 0.18

### 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-2017 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	5.1	Fe
<b>Material Description</b> This material is described as a Low grade transitional ore ex Laos.	Arsenic	56	SiO <sub>2</sub>	82.76
<b>Colour Designation (ISCC-NBS, SP440)</b> This material is yellowish gray in colour.	Barium	416	Al <sub>2</sub> O <sub>3</sub>	8.68
<b>Usage</b> 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 <sub>2</sub>	0.155
<b>Preparation and Packaging</b> 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	0.026
<b>Assay Testwork</b> 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	4	CaO	0.038
<b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.	Calcium (%)	nr	P	0.019
<b>Material Safety</b> This product is not hazardous and non-toxic.	Cerium	30	S	0.366
	Chromium	5	MgO	0.245
	Cobalt	5	K <sub>2</sub> O	3.78
	Europium	<0.5	Na <sub>2</sub> O	0.05
	Gold (ppb)	196	LOI1000	1.47
	Hafnium	<5		
	Iridium (ppb)	<50	Neutron Activation	
	Iron (%)	2.1	Analyses and Fusion /	
	Lanthanum	18	XRF Analyses are	
	Lutetium	<0.2	single results and are	
	Mercury	nr	indicative only. These	
	Molybdenum	<10	are provided for matrix	
	Neodymium	nr	identification purposes.	
	Nickel	<20		
	Potassium (%)	nr		
	Rubidium	123		
	Samarium	1.7		
	Scandium	3		
	Selenium	<10		
	Silver	10		
	Sodium (%)	<0.05		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	<1		
	Thorium	12.2		
	Tin	<200		
	Tungsten	6		
	Uranium	3		
	Ytterbium	1.1		
	Zinc	<200		
	Zirconium	<500		

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