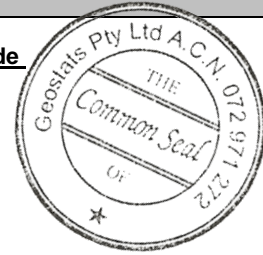


# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

**Certified Ore Grade Base Metal Reference Material Product Code**

## GBM917-13



### Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	41	10	81	+/- 2
Copper (ppm)	8149	367	127	+/- 65
Zinc (ppm)	11030	515	112	+/- 97
Lead (ppm)	8374	314	105	+/- 61
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	206.4	9.0	108	+/- 1.72
Sulphur (%)	1.91	0.11	92	+/- 0.02

### 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	93.8	Fe
<b>Material Description</b> This material is described as an Ag Ore.	Arsenic	162	SiO <sub>2</sub>	53.96
	Barium	348	Al <sub>2</sub> O <sub>3</sub>	14.45
<b>Colour Designation (ISCC-NBS, SP440)</b> This material is medium light gray in colour.	Bromine	<2	TiO <sub>2</sub>	1.363
	Cadmium	33	MnO	0.15
<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.	Caesium	<2	CaO	7.05
	Calcium (%)	nr	P	0.068
<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.	Cerium	32	S	1.61
	Chromium	141	MgO	3.88
<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.	Cobalt	49	K <sub>2</sub> O	1.24
	Europium	1.44	Na <sub>2</sub> O	2.938
<b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	2050	LOI1000	1.1
	Hafnium	<5	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
<b>Material Safety</b> This product is not hazardous and non-toxic.	Iridium (ppb)	<50	nr: Not Reported	
	Iron (%)	7.7		
	Lanthanum	17		
	Lutetium	0.4		
	Mercury	nr		
	Molybdenum	13		
	Neodymium	nr		
	Nickel	48		
	Potassium (%)	nr		
	Rubidium	53		
	Samarium	4.6		
	Scandium	23.7		
	Selenium	<10		
	Silver	215		
	Sodium (%)	2.34		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	1		
	Thorium	8.4		
	Tin	<300		
	Tungsten	<5		
	Uranium	3		
	Ytterbium	2.7		
	Zinc	11500		
	Zirconium	<500		

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