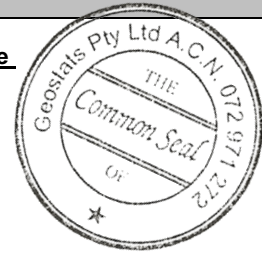


# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

## GBM315-14



Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	301	20	23	+/- 9
Copper (ppm)	29574	905	132	+/- 156
Zinc (ppm)	22481	695	111	+/- 131
Lead (ppm)	7349	229	106	+/- 44
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	36.3	1.7	116	+/- 0.32
Sulphur (%)	4.95	0.15	96	+/- 0.03

### CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the April-2015 round robin. The number of results used to certify each analyte is shown in the table above.	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>		<u>Major Elements by Fusion / XRF (%)</u>	
	<u>Material Description</u> This material is described as a Sulphide Gold copper lead zinc ore.	Antimony	567	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is medium light gray in colour.	Arsenic	873	SiO <sub>2</sub>	50.42
<u>Usage</u> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Barium	230	Al <sub>2</sub> O <sub>3</sub>	11.61
<u>Preparation and Packaging</u> 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.	Bromine	<1	TiO <sub>2</sub>	1.17
<u>Assay Testwork</u> 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.	Cadmium	38	MnO	0.14
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Caesium	1	CaO	5.47
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	nr	P	0.064
	Cerium	<10	S	4.806
	Chromium	120	MgO	3.42
	Cobalt	95	K <sub>2</sub> O	1.56
	Europium	<1	Na <sub>2</sub> O	2.48
	Gold (ppb)	27400	LOI1000	3.23
	Hafnium	<1		
	Iridium (ppb)	<50		
	Iron (%)	8.7		
	Lanthanum	19		
	Lutetium	0.5		
	Mercury	nr		
	Molybdenum	90		
	Neodymium	nr		
	Nickel	321		
	Potassium (%)	nr		
	Rubidium	70		
	Samarium	4.1		
	Scandium	20.7		
	Selenium	24		
	Silver	33		
	Sodium (%)	1.68		
	Strontium	nr		
	Tantalum	0.9		
	Tellurium	nr		
	Terbium	0.6		
	Thorium	9.4		
	Tin	nr		
	Tungsten	6		
	Uranium	5.3		
	Ytterbium	<2		
	Zinc	23000		
	Zirconium	nr		

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