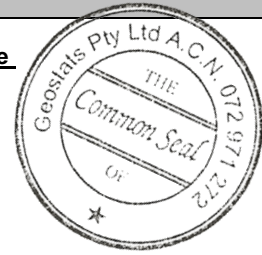


# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

## GBM906-13



Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	nr	nr	nr	nr
Copper (ppm)	21862	781	50	+/- 224
Zinc (ppm)	3036	nr	nr	nr
Lead (ppm)	108	nr	nr	nr
Cobalt (ppm)	59	16	38	+/- 5.4
Silver (ppm)	3.7	1.1	40	+/- 0.35
Sulphur (%)	nr	nr	nr	nr

### CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the October-2006 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>	
	Element	Concentration	Element	Concentration
<u>Material Description</u> This material is described as a Sulphide Copper Ore.	Antimony	0.761	Fe	nr
	Arsenic	17.6	SiO <sub>2</sub>	nr
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is medium gray in colour.	Barium	110	Al <sub>2</sub> O <sub>3</sub>	nr
	Bromine	0.447	TiO <sub>2</sub>	nr
<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.	Cadmium	nr	MnO	nr
	Caesium	1.72	CaO	nr
<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.	Calcium (%)	nr	P	nr
	Cerium	30.5	S	nr
<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.	Chromium	127	MgO	nr
	Cobalt	66.1	K <sub>2</sub> O	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Europium	1.93	Na <sub>2</sub> O	nr
	Gold (ppb)	263	LOI1000	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Hafnium	3.56	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iridium (ppb)	<10.1	'nr': Not Reported	
	Iron (%)	10.9		
	Lanthanum	14.6		
	Lutetium	0.269		
	Mercury	nr		
	Molybdenum	143		
	Neodymium	<0.0997		
	Nickel	122		
	Potassium (%)	nr		
	Rubidium	39		
	Samarium	4.94		
	Scandium	22.8		
	Selenium	5.84		
	Silver	<1.4		
	Sodium (%)	1.62		
	Strontium	<12.6		
	Tantalum	0.612		
	Tellurium	nr		
	Terbium	1.15		
	Thorium	4.43		
	Tin	<79.9		
	Tungsten	1.05		
	Uranium	0.938		
	Ytterbium	2.34		
	Zinc	2870		
	Zirconium	nr		

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