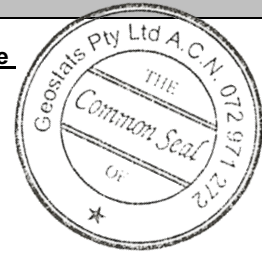


# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

## GBM305-11



Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	25	nr	nr	nr
Copper (ppm)	125927	4527	47	+/- 1344
Zinc (ppm)	39313	1418	44	+/- 436
Lead (ppm)	124192	5452	38	+/- 1816
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	nr	nr	nr	nr
Sulphur (%)	nr	nr	nr	nr

### CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the April-2005 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 Copper Lead Middling sulphide.	Antimony	955	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is medium dark gray in colour.	Arsenic	580	SiO <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.	Barium	180	Al <sub>2</sub> O <sub>3</sub>	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.	Bromine	8.61	TiO <sub>2</sub>	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.	Cadmium	97.5	MnO	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Caesium	<0.72	CaO	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	nr	P	nr
	Cerium	<1.2	S	nr
	Chromium	20.7	MgO	nr
	Cobalt	510	K <sub>2</sub> O	nr
	Europium	0.28	Na <sub>2</sub> O	nr
	Gold (ppb)	18800	LOI1000	nr
	Hafnium	<0.35		
	Iridium (ppb)	24	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%)	27.6	'nr': Not Reported	
	Lanthanum	2.36		
	Lutetium	<0.05		
	Mercury	<0.45		
	Molybdenum	<4.8		
	Neodymium	51		
	Nickel	<50		
	Potassium (%)	2.7		
	Rubidium	<18		
	Samarium	0.362		
	Scandium	0.834		
	Selenium	114		
	Silver	980		
	Sodium (%)	0.087		
	Strontium	nr		
	Tantalum	<0.1		
	Tellurium	<10		
	Terbium	<0.41		
	Thorium	0.26		
	Tin	<170		
	Tungsten	<5		
	Uranium	<1.4		
	Ytterbium	1.79		
	Zinc	39000		
	Zirconium	<290		

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