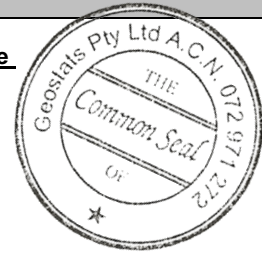


# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

## GBM909-13



Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	24	nr	nr	nr
Copper (ppm)	32093	1295	79	+/- 292
Zinc (ppm)	68362	2363	67	+/- 581
Lead (ppm)	8513	327	70	+/- 79
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	127.3	6.8	66	+/- 1.68
Sulphur (%)	18.13	0.60	58	+/- 0.16

### CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the October-2009 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 Cu/Pb/Zn/Ag massive sulphide ore.	Antimony	78.9	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is medium dark gray in colour.	Arsenic	218	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	<50	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	1	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	150	MnO	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Caesium	<0.5	CaO	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	nr	P	nr
	Cerium	10	S	nr
	Chromium	89	MgO	nr
	Cobalt	94	K <sub>2</sub> O	nr
	Europium	1.1	Na <sub>2</sub> O	nr
	Gold (ppb)	461	LOI1000	nr
	Hafnium	<1		
	Iridium (ppb)	<20		
	Iron (%)	18.9		
	Lanthanum	6		
	Lutetium	0.33		
	Mercury	nr		
	Molybdenum	<1		
	Neodymium	nr		
	Nickel	<21		
	Potassium (%)	nr		
	Rubidium	11		
	Samarium	2.8		
	Scandium	16.6		
	Selenium	61		
	Silver	131		
	Sodium (%)	1		
	Strontium	nr		
	Tantalum	0.3		
	Tellurium	<10		
	Terbium	<0.5		
	Thorium	0.8		
	Tin	640		
	Tungsten	<4		
	Uranium	<0.2		
	Ytterbium	<0.5		
	Zinc	69100		
	Zirconium	<210		

20 Hines Road, O'Connor, Western Australia 6163

Phone : +61 8 9314 2566, Fax : +61 8 9314 3699

e-mail : pjh@geostats.com.au, srr@geostats.com.au

Website <http://www.geostats.com.au>

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