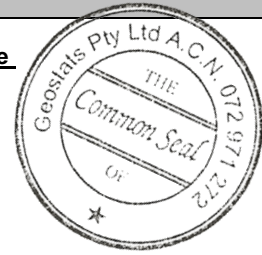


# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

## GBM307-16



Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	855	nr	nr	nr
Copper (ppm)	950	61	47	+/- 18
Zinc (ppm)	3668	nr	nr	nr
Lead (ppm)	2778	nr	nr	nr
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	nr	nr	nr	nr
Sulphur (%)	26.98	1.71	32	+/- 0.63

### CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the April-2007 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 an Arsenopyrite Concentrate.	Antimony	392	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is medium dark gray in colour.	Arsenic	95000	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	<113	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	<22	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	<54.4	MnO	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Caesium	<0.759	CaO	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	nr	P	nr
	Cerium	42.2	S	nr
	Chromium	26.8	MgO	nr
	Cobalt	110	K <sub>2</sub> O	nr
	Europium	<1.75	Na <sub>2</sub> O	nr
	Gold (ppb)	49600	LOI1000	nr
	Hafnium	2.88		
	Iridium (ppb)	<42.1	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%)	29.8	'nr': Not Reported	
	Lanthanum	19		
	Lutetium	0.342		
	Mercury	nr		
	Molybdenum	<13.1		
	Neodymium	nr		
	Nickel	1100		
	Potassium (%)	nr		
	Rubidium	27		
	Samarium	5.01		
	Scandium	5.5		
	Selenium	<8.56		
	Silver	23		
	Sodium (%)	0.26		
	Strontium	nr		
	Tantalum	0.832		
	Tellurium	<24.5		
	Terbium	<0.317		
	Thorium	2.37		
	Tin	<242		
	Tungsten	29		
	Uranium	<3.59		
	Ytterbium	<4.62		
	Zinc	3550		
	Zirconium	<444		

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>

GBM307-16

Geostats Pty Ltd, Certified Ore Grade Base Metal Reference Material, Product Code: