

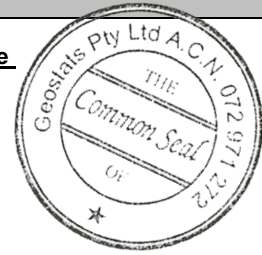
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

## GBM904-13

Certified Control Values



GBM904-13

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

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	66	nr	nr	nr
Copper (ppm)	14200	517	49	+/- 150
Zinc (ppm)	50454	2234	49	+/- 648
Lead (ppm)	612	25	38	+/- 8
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 October-2004 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 Zinc Ore Sulphide.	Antimony	8.7	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is very light gray in colour.	Arsenic	413	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	370	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	1.7	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	120	MnO	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Caesium	4.1	CaO	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	nr	P	nr
	Cerium	38	S	nr
	Chromium	37	MgO	nr
	Cobalt	200	K <sub>2</sub> O	nr
	Europium	<1	Na <sub>2</sub> O	nr
	Gold (ppb)	6100	LOI1000	nr
	Hafnium	2		
	Iridium (ppb)	<50		
	Iron (%)	4.2		
	Lanthanum	22		
	Lutetium	0.2		
	Mercury	nr		
	Molybdenum	2		
	Neodymium	nr		
	Nickel	65		
	Potassium (%)	nr		
	Rubidium	12		
	Samarium	3.7		
	Scandium	11		
	Selenium	<5		
	Silver	nr		
	Sodium (%)	0.74		
	Strontium	nr		
	Tantalum	<0.5		
	Tellurium	<10		
	Terbium	<0.5		
	Thorium	3		
	Tin	<100		
	Tungsten	10		
	Uranium	1.1		
	Ytterbium	<2		
	Zinc	50500		
	Zirconium	<200		

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>