

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Base Metal Reference Material Product Code

# BM1

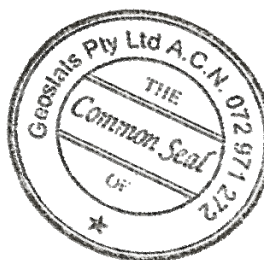
### Certified Control Values

#### Base Metal Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Nickel (ppm)	27	14	39	+/- 4.6
Copper (ppm)	25	5	46	+/- 1.5
Zinc (ppm)	22	8	45	+/- 2.4
Lead (ppm)	14	12	40	+/- 3.9
Arsenic (ppm)	32	12	35	+/- 4.2
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	nr	nr	nr	nr

### CRM Details

Control Statistic Details	Neutron Activation		Major Elements	
	Analysis Results (ppm)		Fusion / XRF (%)	
Control statistics were produced from results accumulated in the : <u>April-1995</u> Geostats Pty Ltd Laboratory Round Robin Program. <u>35</u> laboratories (at least) tested this material for base metal content.	Antimony	nr	Fe	nr
	Arsenic	nr	SiO <sub>2</sub>	nr
	Barium	nr	Al <sub>2</sub> O <sub>3</sub>	nr
	Bromine	nr	TiO <sub>2</sub>	nr
	Cadmium	nr	MnO	nr
	Cerium	nr	CaO	nr
	Caesium	nr	P	nr
	Chromium	nr	S	nr
	Cobalt	nr	MgO	nr
	Europium	nr	K <sub>2</sub> O	nr
	Gold ppb	nr	Na <sub>2</sub> O	nr
	Hafnium	nr	LOI1000	nr
	Iridium ppb	nr		
	Iron %	nr		
	Lanthanum	nr		
	Lutetium	nr		
	Molybdenum	nr		
	Nickel	nr		
	Rubidium	nr		
	Samarium	nr		
	Scandium	nr		
	Selenium	nr		
	Sodium %	nr		
	Tantalum	nr		
	Tellurium	nr		
	Terbium	nr		
	Thorium	nr		
	Tin	nr		
	Tungsten	nr		
	Uranium	nr		
	Ytterbium	nr		
	Zinc	nr		
	Zirconium	nr		
	Calcium%	nr		
	Potassium %	nr		
	Silver	nr		
	Mercury	nr		
	Neodymium	nr		
	Strontium	nr		



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35 laboratories (at least) tested this material for base metal content.

#### Source Material

Prior to homogenisation and testing, this material was sourced from Gossan / Ochre in the Murchison gold field WA

#### Colour Designation

Dark reddish brown

#### Usage

This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.

#### Preparation and Packaging

All standards are dried in an oven for a minimum of 12 hours at 110C. 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.

#### Assay Testwork

All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by a minimum of 50 reputable laboratories selected from across the world using a variety of methods (including AR, 3AD, 4AD and ICP, AAS and XRF). 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.

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