

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Ore Grade Base Metal Reference Material Product Code

# GBM305-16

### Certified Control Values

#### Ore Grade Base Metal Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Nickel (ppm)	6503	304	41	+/- 97
Copper (ppm)	381	62	44	+/- 19
Zinc (ppm)	92	21	25	+/- 9
Lead (ppm)	26	19	12	+/- 12
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	nr	nr	nr	nr
Sulphur (%)	nr	nr	nr	nr

### CRM Details

#### Control Statistic Details

Control statistics were produced from results accumulated in the :  
April-2005 Geostats Pty Ltd Laboratory Round Robin Program.  
12 laboratories (at least) tested this material for base metal content.

#### Source Material

Prior to homogenisation and testing, this material was sourced from Nickel sulphide Ore low grade ultramafic

#### Colour Designation

Light gray

#### 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.

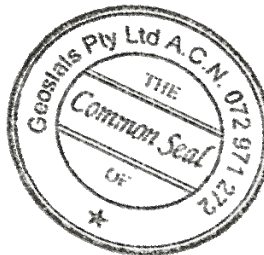
Materials are statistically sampled from stores, then packaged into either heat sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.

#### 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.

#### Neutron Activation Analysis Results (ppm)

Element	ppm	Major Elements Fusion / XRF (%)
Antimony	1.35	Fe nr
Arsenic	135	SiO2 nr
Barium	<56	Al2O3 nr
Bromine	6.58	TiO2 nr
Cadmium	<3.6	MnO nr
Cerium	9.88	CaO nr
Caesium	1.6	P nr
Chromium	2200	S nr
Cobalt	242	MgO nr
Europium	0.25	K2O nr
Gold ppb	396	Na2O nr
Hafnium	0.64	LOI1000 nr
Iridium ppb	10	
Iron %	14.7	
Lanthanum	3.64	
Lutetium	0.079	
Molybdenum	3.5	
Nickel	6700	
Rubidium	13	
Samarium	0.868	
Scandium	8.28	
Selenium	<0.94	
Sodium %	0.235	
Tantalum	0.11	
Tellurium	<3.9	
Terbium	<0.2	
Thorium	1	
Tin	<62	
Tungsten	<1.6	
Uranium	0.63	
Ytterbium	0.529	
Zinc	69.6	
Zirconium	<140	
Calcium%	nr	
Potassium %	0.34	
Silver	<1.1	
Mercury	<0.13	
Neodymium	2.9	
Strontium	nr	



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