

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Ore Grade Base Metal Reference Material Product Code

# GBM906-13

### Certified Control Values

#### Ore Grade Base Metal Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Nickel (ppm)	nr	nr	nr	nr
Copper (ppm)	21862	781	50	+/- 224
Zinc (ppm)	3036	134	20	+/- 64
Lead (ppm)	108	10	13	+/- 6
Cobalt (ppm)	59	16	38	+/- 5.4
Silver (ppm)	3.7	1.1	40	+/- 0.35
Sulphur (%)	nr	nr	nr	nr

### CRM Details

#### Control Statistic Details

Control statistics were produced from results accumulated in the :

October-2006 Geostats Pty Ltd Laboratory Round Robin Program.  
13 laboratories (at least) tested this material for base metal content.

#### Source Material

Prior to homogenisation and testing, this material was sourced from  
Sulphide Copper Ore

#### Colour Designation

Medium 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

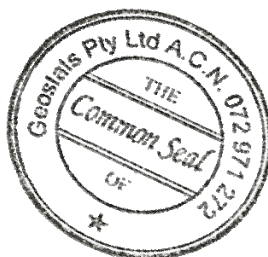
All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by a minimum of 50 reputable laboratories selected from across the world using a variety of methods (including AR, 3AD, 4AD and ICP, AAS and XRF). Results are compiled into a comprehensive report detailing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

Antimony	0.761
Arsenic	17.6
Barium	110
Bromine	0.447
Cadmium	nr
Cerium	30.5
Caesium	1.72
Chromium	127
Cobalt	66.1
Europium	1.93
Gold ppb	263
Hafnium	3.56
Iridium ppb	<10.1
Iron %	10.9
Lanthanum	14.6
Lutetium	0.269
Molybdenum	143
Nickel	122
Rubidium	39
Samarium	4.94
Scandium	22.8
Selenium	5.84
Sodium %	1.62
Tantalum	0.612
Tellurium	nr
Terbium	1.15
Thorium	4.43
Tin	<79.9
Tungsten	1.05
Uranium	0.938
Ytterbium	2.34
Zinc	2870
Zirconium	nr
Calcium%	nr
Potassium %	nr
Silver	<1.4
Mercury	nr
Neodymium	<0.0997
Strontium	<12.6

#### Major Elements Fusion / XRF (%)

Fe	nr
SiO <sub>2</sub>	nr
Al <sub>2</sub> O <sub>3</sub>	nr
TiO <sub>2</sub>	nr
MnO	nr
CaO	nr
P	nr
S	nr
MgO	nr
K <sub>2</sub> O	nr
Na <sub>2</sub> O	nr
LOI1000	nr



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