

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Ore Grade Base Metal Reference Material Product Code

# GBM906-12

### 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)	1399	79	52	+/- 22
Zinc (ppm)	52675	2651	47	+/- 787
Lead (ppm)	1346	63	43	+/- 19
Cobalt (ppm)	17	nc	nc	nc
Silver (ppm)	2.1	0.5	35	+/- 0.18
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.  
35 laboratories (at least) tested this material for base metal content.

#### Source Material

Prior to homogenisation and testing, this material was sourced from Zinc 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 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.

#### Assay Testwork

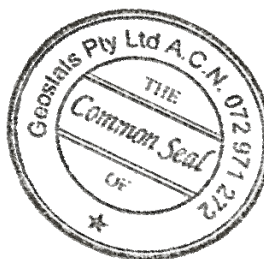
All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by a minimum of 50 reputable laboratories selected from across the world using a variety of methods (including AR, 3AD, 4AD and ICP, AAS and XRF). Results are compiled into a comprehensive report detailing 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	4.48
Arsenic	58.7
Barium	91
Bromine	4.66
Cadmium	nr
Cerium	105
Caesium	31.5
Chromium	49.9
Cobalt	21.4
Europium	2.09
Gold ppb	582
Hafnium	2.37
Iridium ppb	<13.7
Iron %	5.93
Lanthanum	63.5
Lutetium	0.169
Molybdenum	8.2
Nickel	95.8
Rubidium	667
Samarium	5.33
Scandium	8.51
Selenium	<1.5
Sodium %	0.998
Tantalum	0.848
Tellurium	nr
Terbium	0.757
Thorium	5.75
Tin	<93.4
Tungsten	1.58
Uranium	5.97
Ytterbium	1.99
Zinc	50100
Zirconium	nr
Calcium%	nr
Potassium %	nr
Silver	<2.01
Mercury	nr
Neodymium	26.7
Strontium	<15.3

#### 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



10A Marsh Close, 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>

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