

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM906-11

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)	369	30	49	+/- 9
Zinc (ppm)	63072	3632	47	+/- 1078
Lead (ppm)	1554	105	44	+/- 32
Cobalt (ppm)	13	nc	nc	nc
Silver (ppm)	2.6	0.7	37	+/- 0.25
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.
37 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

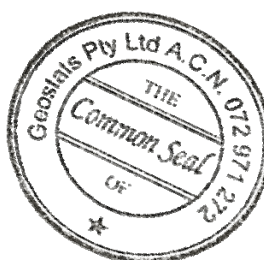
All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by a minimum of 50 reputable laboratories selected from across the world using a variety of methods (including AR, 3AD, 4AD and ICP, AAS and XRF). Results are compiled into a comprehensive report detailing 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	5.14
Arsenic	51.1
Barium	93.4
Bromine	2.71
Cadmium	nr
Cerium	58.7
Caesium	26.8
Chromium	48.5
Cobalt	15
Europium	1.58
Gold ppb	496
Hafnium	2.48
Iridium ppb	15
Iron %	4.9
Lanthanum	33.5
Lutetium	0.131
Molybdenum	6.06
Nickel	59.4
Rubidium	570
Samarium	3.59
Scandium	7.78
Selenium	<1.48
Sodium %	0.704
Tantalum	0.601
Tellurium	nr
Terbium	0.702
Thorium	4.22
Tin	<91.1
Tungsten	1.51
Uranium	3.55
Ytterbium	1.59
Zinc	63400
Zirconium	nr
Calcium%	nr
Potassium %	nr
Silver	<2.04
Mercury	nr
Neodymium	<15.3
Strontium	<15.5

Major Elements Fusion / XRF (%)

Fe	nr
SiO ₂	nr
Al ₂ O ₃	nr
TiO ₂	nr
MnO	nr
CaO	nr
P	nr
S	nr
MgO	nr
K ₂ O	nr
Na ₂ 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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