

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM908-16

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)	70180	1891	49	+/- 549
Zinc (ppm)	nr	nr	nr	nr
Lead (ppm)	735	120	22	+/- 54
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	22.5	1.9	21	+/- 0.87
Sulphur (%)	7.5	0.4	36	+/- 0.15

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the :

October-2008 Geostats Pty Ltd Laboratory Round Robin Program.
21 laboratories (at least) tested this material for base metal content.

Source Material

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

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

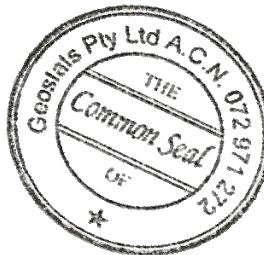
All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by a minimum of 50 reputable laboratories selected from across the world using a variety of methods (including AR, 3AD, 4AD and ICP, AAS and XRF). Results are compiled into a comprehensive report detailing 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	28.8
Arsenic	315
Barium	350
Bromine	<1.7
Cadmium	<5
Cerium	39
Caesium	1.6
Chromium	98
Cobalt	300
Europium	1
Gold ppb	7280
Hafnium	3
Iridium ppb	<50
Iron %	11
Lanthanum	26
Lutetium	0.4
Molybdenum	280
Nickel	77
Rubidium	54
Samarium	4.1
Scandium	18
Selenium	27
Sodium %	2
Tantalum	1.1
Tellurium	<10
Terbium	0.8
Thorium	11
Tin	<100
Tungsten	5
Uranium	7.7
Ytterbium	2
Zinc	938
Zirconium	<200
Calcium%	nr
Potassium %	nr
Silver	23
Mercury	nr
Neodymium	nr
Strontium	nr

Major Elements Fusion / XRF (%)

Fe	nr
SiO2	nr
Al2O3	nr
TiO2	nr
MnO	nr
CaO	nr
P	nr
S	nr
MgO	nr
K2O	nr
Na2O	nr
LOI1000	nr



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