

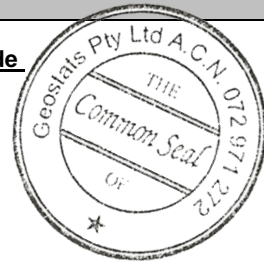
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

## GBM922-12

Certified Control Values



Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	20429	1030	179	+/- 152
Copper (ppm)	13975	556	235	+/- 72
Zinc (ppm)	3402	138	121	+/- 25
Lead (ppm)	184	17	113	+/- 3
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	4.4	0.7	197	+/- 0.1
Sulphur (%)	6.90	0.27	185	+/- 0.04

### CRM Details

#### Control Statistic Details

Control statistics were produced from results accumulated in the October-2022, October-2015 round robins. The number of results used to certify each analyte is shown in the table above.

#### Material Description

This material is described as a Low Cu Au Ore.

#### Colour Designation (ISCC-NBS, SP440)

This material is medium dark gray in colour.

#### Usage

This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.

#### Preparation and Packaging

All CRMs 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 multiple laboratories from around the world. 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.

#### Stability

This product remains stable in its original packaging, away from direct sunlight.

#### Material Safety

This product is not hazardous and non-toxic.

#### Neutron Activation Analysis Results (ppm, unless otherwise noted)

Antimony	2.1
Arsenic	80
Barium	<100
Bromine	<2
Cadmium	<10
Caesium	<2
Calcium (%)	nr
Cerium	17
Chromium	194
Cobalt	868
Europium	1.2
Gold (ppb)	296
Hafnium	<5
Iridium (ppb)	<50
Iron (%)	15.5
Lanthanum	8
Lutetium	0.3
Mercury	nr
Molybdenum	<10
Neodymium	nr
Nickel	22000
Potassium (%)	nr
Rubidium	21
Samarium	4
Scandium	24.3
Selenium	11
Silver	<5
Sodium (%)	1.47
Strontium	nr
Tantalum	<2
Tellurium	<20
Terbium	<1
Thorium	3
Tin	<200
Tungsten	<2
Uranium	1
Ytterbium	2.4
Zinc	3400
Zirconium	<500

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

Fe	15.406
SiO <sub>2</sub>	39.55
Al <sub>2</sub> O <sub>3</sub>	10.77
TiO <sub>2</sub>	1.48
MnO	0.15
CaO	6.99
P	0.065
S	6.728
MgO	4.62
K <sub>2</sub> O	0.347
Na <sub>2</sub> O	nr
LOI1000	6.16

Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.

'nr': Not Reported

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