

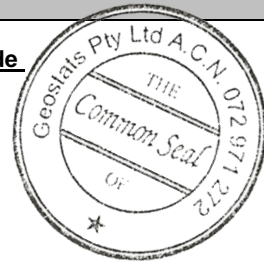
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

## GBM923-16

Certified Control Values



Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	19325	1061	269	+/- 128
Copper (ppm)	4693	191	361	+/- 20
Zinc (ppm)	1265	93	317	+/- 10
Lead (ppm)	54	9	224	+/- 1
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	53.4	2.6	320	+/- 0.29
Sulphur (%)	6.86	0.37	288	+/- 0.04

### CRM Details

#### Control Statistic Details

Control statistics were produced from results accumulated in the October-2018, April-2022, October-2023 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 Composite nickel, sulphide.

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

This material is very pale orange 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	2.2
Arsenic	43
Barium	267
Bromine	8
Cadmium	<10
Caesium	<2
Calcium (%)	nr
Cerium	5
Chromium	2390
Cobalt	1020
Europium	<0.5
Gold (ppb)	777
Hafnium	<5
Iridium (ppb)	1231
Iron (%)	5.4
Lanthanum	3
Lutetium	<0.2
Mercury	nr
Molybdenum	<10
Neodymium	nr
Nickel	20900
Potassium (%)	nr
Rubidium	23
Samarium	0.6
Scandium	8.7
Selenium	<10
Silver	56
Sodium (%)	0.6
Strontium	nr
Tantalum	<2
Tellurium	<20
Terbium	<1
Thorium	2.6
Tin	300
Tungsten	<5
Uranium	2
Ytterbium	<0.5
Zinc	1260
Zirconium	<500

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

Fe	5.972
SiO <sub>2</sub>	21.15
Al <sub>2</sub> O <sub>3</sub>	2.35
TiO <sub>2</sub>	0.16
MnO	0.12
CaO	17.8
P	0.033
S	7.048
MgO	13.6
K <sub>2</sub> O	0.137
Na <sub>2</sub> O	0.96
LOI1000	14.6

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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