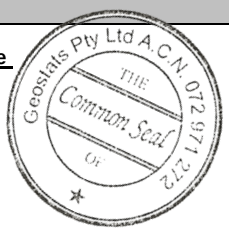
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM923-10



Certified Control Values

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	235	22	54	+/- 6
Copper (ppm)	3661	194	63	+/- 49.3
Zinc (ppm)	789	47	57	+/- 12.6
Lead (ppm)	265	24	55	+/- 6.5
Arsenic (ppm)	31	5	45	+/- 1.4
Cobalt (ppm)	39	4	57	+/- 1.1
Silver (ppm)	6.9	1.0	47	+/- 0.3

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	226	13	54	+/- 3.7
Copper (ppm)	3700	163	79	+/- 36.7
Zinc (ppm)	778	37	61	+/- 9.6
Lead (ppm)	266	18	62	+/- 4.5
Arsenic (ppm)	33	4	49	+/- 1.1
Cobalt (ppm)	28	4	55	+/- 1.1
Silver (ppm)	7.0	0.8	65	+/- 0.21

CRM Details

Control Statistic Details
Control statistics were produced from results accumulated in the October-2023 round robin. The number of results used to certify each analyte is shown in the table above.

Material Description
This material is described as a Cu / Gold Sulphide ore.

Colour Designation (ISCC-NBS, SP440)
This material is light 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	15
Arsenic	35
Barium	373
Bromine	<2
Cadmium	<10
Caesium	3
Calcium (%)	nr
Cerium	38
Chromium	91
Cobalt	43
Europium	1.2
Gold (ppb)	6610
Hafnium	<5
Iridium (ppb)	<50
Iron (%)	5.9
Lanthanum	22
Lutetium	0.4
Mercury	nr
Molybdenum	15
Neodymium	nr
Nickel	260
Potassium (%)	nr
Rubidium	95
Samarium	4.5
Scandium	19.4
Selenium	<10
Silver	9
Sodium (%)	2.46
Strontium	nr
Tantalum	<2
Tellurium	<20
Terbium	1
Thorium	12.7
Tin	<200
Tungsten	47.5
Uranium	7
Ytterbium	2.7
Zinc	860
Zirconium	<500

Major Elements by Fusion / XRF (%)	
Fe	5.66
SiO_2	60.51
Al_2O_3	14.31
TiO_2	1.088
MnO	0.12
CaO	5.67
P	0.056
S	0.452
MgO	3.08
K_2O	2.16
Na_2O	3.483
LOI1000	0.65

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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