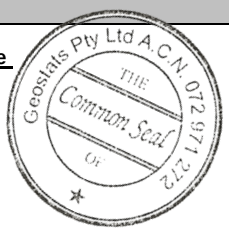
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM921-2



Certified Control Values

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	55	3	62	+/- 0.8
Copper (ppm)	888	33	66	+/- 8.2
Zinc (ppm)	74	5	59	+/- 1.3
Lead (ppm)	13	3	57	+/- 0.9
Arsenic (ppm)	24	3	54	+/- 1
Cobalt (ppm)	16	1	62	+/- 0.4
Silver (ppm)	0.7	0.1	45	+/- 0.04

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	51	2	55	+/- 0.6
Copper (ppm)	888	40	90	+/- 8.3
Zinc (ppm)	65	4	65	+/- 1
Lead (ppm)	8	2	55	+/- 0.4
Arsenic (ppm)	24	2	57	+/- 0.5
Cobalt (ppm)	15	2	61	+/- 0.4
Silver (ppm)	0.6	0.2	58	+/- 0.05

CRM Details

Control Statistic Details
Control statistics were produced from results accumulated in the October-2021 round robin. The number of results used to certify each analyte is shown in the table above.

Material Description
This material is described as an Archean porphyry-style Cu/Au/Mo.

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	2.5
Arsenic	25.2
Barium	142
Bromine	<2
Cadmium	<10
Caesium	6
Calcium (%)	nr
Cerium	36
Chromium	95
Cobalt	16.3
Europium	1.1
Gold (ppb)	426
Hafnium	<5
Iridium (ppb)	<50
Iron (%)	4.2
Lanthanum	16
Lutetium	0.2
Mercury	nr
Molybdenum	17
Neodymium	nr
Nickel	65
Potassium (%)	nr
Rubidium	109
Samarium	3.7
Scandium	11.7
Selenium	<10
Silver	<5
Sodium (%)	2.52
Strontium	nr
Tantalum	<2
Tellurium	<20
Terbium	<1
Thorium	6.7
Tin	<200
Tungsten	23
Uranium	2
Ytterbium	1.3
Zinc	<200
Zirconium	<500

Major Elements by Fusion / XRF (%)	
Fe	4.091
SiO_2	62.61
Al_2O_3	15.7
TiO_2	0.7
MnO	0.06
CaO	4.89
P	0.071
S	0.229
MgO	3.06
K_2O	1.58
Na_2O	3.46
LOI1000	1.4

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

'nr': Not Reported

20 Hines Road, O'Connor, Western Australia 6163
Phone: +61 8 9314 2566 | Email: info@geostats.com.au
Website: www.geostats.com.au

GBM921-2

Geostats Pty Ltd, Certified Geochem Base Metal Reference Material, Product Code: