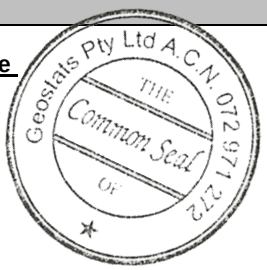
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM324-14



Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	33	10	149	+/- 2
Copper (ppm)	6821	224	210	+/- 31
Zinc (ppm)	20715	704	184	+/- 103
Lead (ppm)	6630	372	181	+/- 55
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	45.4	2.5	199	+/- 0.35
Sulphur (%)	2.18	0.08	172	+/- 0.01

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the April-2021, April-2024 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 High Grade Silver 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	27.5
Arsenic	93
Barium	419
Bromine	<2
Cadmium	60
Caesium	<2
Calcium (%)	nr
Cerium	36
Chromium	131
Cobalt	48
Europium	1
Gold (ppb)	658
Hafnium	7
Iridium (ppb)	<50
Iron (%)	6.7
Lanthanum	21
Lutetium	0.3
Mercury	nr
Molybdenum	100
Neodymium	nr
Nickel	34
Potassium (%)	nr
Rubidium	90
Samarium	4.4
Scandium	21.2
Selenium	<10
Silver	47
Sodium (%)	2.23
Strontium	nr
Tantalum	4
Tellurium	<20
Terbium	1
Thorium	12.9
Tin	<200
Tungsten	8
Uranium	7
Ytterbium	3
Zinc	21500
Zirconium	<500

Major Elements by Fusion / XRF (%)	
Fe	6.09
SiO_2	54.19
Al_2O_3	13.28
TiO_2	3.044
MnO	0.12
CaO	5.6
P	0.056
S	2.24
MgO	3.25
K_2O	1.82
Na_2O	3.058
LOI1000	1.55

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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