

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Multi-Element Reference Material Product Code

GBMS623-2

Certified Control Values

Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Au - FA (ppm)	3.13	0.19	185	+/- 0.027
Au - AR (ppm)	2.93	0.24	76	+/- 0.056
Silver (ppm)	6.9	0.5	60	+/- 0.12
Copper (ppm)	3422	128	62	+/- 32.8
Lead (ppm)	241	7	54	+/- 2
Zinc (ppm)	583	20	56	+/- 5.4
Nickel (ppm)	265	12	57	+/- 3.2
Arsenic (ppm)	450	20	53	+/- 5.5
Cobalt (ppm)	55	3	58	+/- 0.8
Sulphur (%)	1.18	0.06	103	+/- 0.011

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the :

October-2016 & April-2020 Geostats Pty Ltd Laboratory Round Robin Programs.
53 laboratories (at least) tested this material for base metal content.

Source Material

Prior to homogenisation and testing, this material was sourced from Composite of Tail samples

Colour Designation

Pale yellowish brown

Usage

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

Preparation and Packaging

All standards are dried in an oven for a minimum of 12 hours at 110C. 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 a minimum of 50 reputable laboratories selected from across the world using a variety of methods (including FA, AR, 3AD, 4AD and ICP, AAS and XRF). 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

Neutron Activation

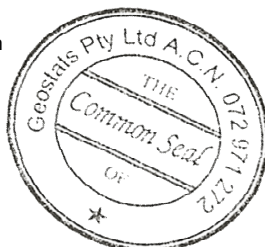
Analysis Results (ppm)

Antimony	31
Arsenic	450
Barium	361
Bromine	<2
Cadmium	<10
Cerium	42
Caesium	6
Chromium	728
Cobalt	56
Europium	<0.772
Gold ppb	3020
Hafnium	<5
Iridium ppb	<50
Iron %	7
Lanthanum	18
Lutetium	0
Molybdenum	11
Nickel	328
Rubidium	160
Samarium	4
Scandium	20
Selenium	<10
Sodium %	2
Tantalum	<2
Tellurium	<20
Terbium	1
Thorium	9
Tin	<200
Tungsten	39
Uranium	3
Ytterbium	3
Zinc	606
Zirconium	<500
Calcium%	nr
Potassium %	nr
Silver	8
Mercury	nr
Neodymium	nr
Strontium	nr

Major Elements

Fusion / XRF (%)

Fe	7.216783
SiO ₂	58.12
Al ₂ O ₃	11.83
TiO ₂	1.03
MnO	0.11
CaO	4.32
P	0.058
S	1.14
MgO	2.83
K ₂ O	2.03
Na ₂ O	2.06
LOI1000	3.03



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