

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Multi-Element Reference Material Product Code

# GBMS623-1

## Certified Control Values

### Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Au - FA (ppm)	0.88	0.09	158	+/- 0.014
Au - AR (ppm)	0.87	0.11	67	+/- 0.027
Silver (ppm)	3.5	0.4	97	+/- 0.09
Copper (ppm)	6004	254	110	+/- 48.2
Lead (ppm)	45	8	92	+/- 1.6
Zinc (ppm)	127	22	104	+/- 4.3
Nickel (ppm)	25	7	88	+/- 1.6
Arsenic (ppm)	9	1	56	+/- 0.4
Cobalt (ppm)	26	6	91	+/- 1.4
Sulphur (%)	0.75	0.06	79	+/- 0.013

### CRM Details

#### Control Statistic Details

Control statistics were produced from results accumulated in the :

April-2012  
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Geostats Pty Ltd Laboratory Round Robin Program.  
laboratories (at least) tested this material for base metal content.

#### Source Material

Prior to homogenisation and testing, this material was sourced from  
Cu / Gold Sulphide ore

#### Colour Designation

Light Gray

#### 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

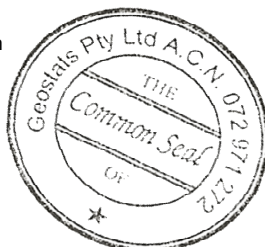
##### Analysis Results (ppm)

Antimony	2
Arsenic	9
Barium	470
Bromine	1
Cadmium	<10
Cerium	40
Caesium	3
Chromium	100
Cobalt	34
Europium	1
Gold ppb	760
Hafnium	4
Iridium ppb	<10
Iron %	5
Lanthanum	23
Lutetium	0
Molybdenum	28
Nickel	30
Rubidium	110
Samarium	4
Scandium	18
Selenium	<5
Sodium %	3
Tantalum	1
Tellurium	<10
Terbium	1
Thorium	14
Tin	<100
Tungsten	<1
Uranium	8
Ytterbium	2
Zinc	130
Zirconium	<200
Calcium%	nr
Potassium %	nr
Silver	4
Mercury	nr
Neodymium	nr
Strontium	nr

#### Major Elements

##### Fusion / XRF (%)

Fe	5.48
SiO <sub>2</sub>	60.63
Al <sub>2</sub> O <sub>3</sub>	14.29
TiO <sub>2</sub>	0.937
MnO	0.11
CaO	5.37
P	0.049
S	0.736
MgO	3.03
K <sub>2</sub> O	2.27
Na <sub>2</sub> O	3.491
LOI1000	0.76



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