

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Multi-Element Reference Material Product Code

# GBMS304-3

### Certified Control Values

#### Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Au - FA (ppm)	2.68	0.14	174	+/- 0.02
Au - AR (ppm)	2.51	0.23	106	+/- 0.04
Silver (ppm)	1.5	0.5	101	+/- 0.09
Copper (ppm)	3637	168	141	+/- 27.67
Lead (ppm)	159	16	123	+/- 2.9
Zinc (ppm)	143	10	116	+/- 1.8
Nickel (ppm)	376	25	108	+/- 4.69
Arsenic (ppm)	263	19	104	+/- 3.62
Cobalt (ppm)	137	10	100	+/- 1.99
Sulphur (%)	2.35	0.10	84	+/- 0.02

#### CRM Details

##### Control Statistic Details

Control statistics were produced from results accumulated in the :  
April-2004 Geostats Pty Ltd Laboratory Round Robin Program.  
84 laboratories (at least) tested this material for base metal content.

##### Source Material

Prior to homogenisation and testing, this material was sourced from Cu / Au minor sulphide, ex Pilbara region

##### 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 homogeneity.

##### Neutron Activation

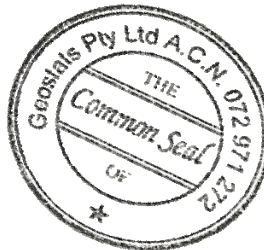
##### Analysis Results (ppm)

Antimony	1
Arsenic	262
Barium	-100
Bromine	2
Cadmium	nr
Cerium	98
Caesium	8
Chromium	267
Cobalt	144
Europium	1
Gold ppb	2645
Hafnium	4
Iridium ppb	-20
Iron %	4
Lanthanum	50
Lutetium	0
Molybendum	6
Nickel	nr
Rubidium	426
Samarium	7
Scandium	11
Selenium	-5
Sodium %	2
Tantalum	-1
Tellurium	-5
Terbium	nr
Thorium	6
Tin	nr
Tungsten	77
Uranium	-2
Ytterbium	2
Zinc	154
Zirconium	-500
Calcium%	4
Potassium %	3
Silver	-5
Mercury	nr
Neodymium	nr
Strontium	nr

##### Major Elements

##### Fusion / XRF (%)

Fe	nr
SiO2	nr
Al2O3	nr
TiO2	nr
MnO	nr
CaO	nr
P	nr
S	nr
MgO	nr
K2O	nr
Na2O	nr
LOI1000	nr



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