

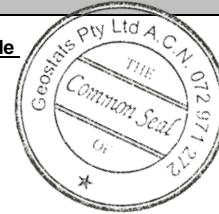
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM318-7

Certified Control Values



GBM318-7

### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	2	1	29	+/- 0.4
Copper (ppm)	3	1	31	+/- 0.4
Zinc (ppm)	2	1	21	+/- 0.3
Lead (ppm)	2	2	24	+/- 0.7
Arsenic (ppm)	2	2	13	+/- 1
Cobalt (ppm)	1	0	11	+/- 0.2
Silver (ppm)	0.1	0.1	6	+/- 0.1

### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	2	2	27	+/- 0.9
Copper (ppm)	2	1	41	+/- 0.3
Zinc (ppm)	5	5	23	+/- 2
Lead (ppm)	2	2	21	+/- 0.8
Arsenic (ppm)	4	3	17	+/- 1.6
Cobalt (ppm)	1	0	10	+/- 0.3
Silver (ppm)	0.4	0.2	11	+/- 0.17

### CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)		Major Elements by Fusion / XRF (%)	
	Control statistics were produced from results accumulated in the April-2018 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	<0.2	Fe
<b>Material Description</b> This material is described as a Pure silica.	Arsenic	0.5	SiO <sub>2</sub>	99.53
<b>Colour Designation (ISCC-NBS, SP440)</b> This material is white in colour.	Barium	<100	Al <sub>2</sub> O <sub>3</sub>	0.27
<b>Usage</b> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Bromine	<2	TiO <sub>2</sub>	0.04
<b>Preparation and Packaging</b> 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.	Cadmium	<10	MnO	<0.01
<b>Assay Testwork</b> 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.	Caesium	<2	CaO	0.02
<b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.	Calcium (%)	nr	P	0.002
<b>Material Safety</b> This product is not hazardous and non-toxic.	Cerium	<10	S	<0.0004
	Chromium	<10	MgO	0.01
	Cobalt	<1	K <sub>2</sub> O	0.005
	Europium	<0.5	Na <sub>2</sub> O	<0.01
	Gold (ppb)	<5	LOI1000	0.06
	Hafnium	<5		
	Iridium (ppb)	<50	Neutron Activation	
	Iron (%)	<0.5	Analyses and Fusion /	
	Lanthanum	<2	XRF Analyses are	
	Lutetium	<0.2	single results and are	
	Mercury	nr	indicative only. These	
	Molybdenum	<10	are provided for matrix	
	Neodymium	nr	identification purposes.	
	Nickel	<20		
	Potassium (%)	nr		
	Rubidium	<20	'nr': Not Reported	
	Samarium	0.2		
	Scandium	0.1		
	Selenium	<10		
	Silver	<5		
	Sodium (%)	0		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	<1		
	Thorium	0.7		
	Tin	<200		
	Tungsten	<5		
	Uranium	<1		
	Ytterbium	<0.5		
	Zinc	<200		
	Zirconium	<500		

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