

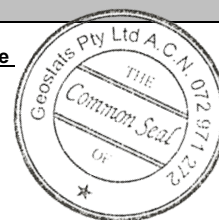
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM913-1

Certified Control Values



GBM913-1

### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	5	1	54	+/- 0.4
Copper (ppm)	3964	144	73	+/- 33.9
Zinc (ppm)	787	47	67	+/- 11.6
Lead (ppm)	477	35	63	+/- 9
Arsenic (ppm)	705	46	59	+/- 12.1
Cobalt (ppm)	9	1	58	+/- 0.3
Silver (ppm)	10.0	0.5	61	+/- 0.13

### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	6	2	46	+/- 0.5
Copper (ppm)	3942	199	75	+/- 46.1
Zinc (ppm)	793	48	66	+/- 11.8
Lead (ppm)	255	29	56	+/- 8
Arsenic (ppm)	707	31	56	+/- 8.4
Cobalt (ppm)	10	1	51	+/- 0.3
Silver (ppm)	10.0	0.6	69	+/- 0.15

### CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Major Elements by Fusion / XRF (%)	
		Fe	SiO <sub>2</sub>
Control statistics were produced from results accumulated in the October-2013 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony 30.1	5.4	68.62
	Arsenic 706	Al <sub>2</sub> O <sub>3</sub> 13.31	
	Barium 604	TiO <sub>2</sub> 0.441	
	Bromine <0.456	MnO 0.02	
	Cadmium <5	CaO 0.05	
	Caesium 0.518	P 0.073	
	Calcium (%) nr	S 6.59	
	Cerium 28.5	MgO 0.1	
	Chromium <22.9	K <sub>2</sub> O 0.916	
	Cobalt 10	Na <sub>2</sub> O 0.121	
	Europium nr	LOI1000 7.8	
	Gold (ppb) 298	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Hafnium 2.54	'nr': Not Reported	
	Iridium (ppb) <20		
	Iron (%) 5.58		
	Lanthanum 16.4		
	Lutetium 0.124		
	Mercury nr		
	Molybdenum 20.2		
	Neodymium nr		
	Nickel <10		
	Potassium (%) nr		
	Rubidium 31.7		
	Samarium 2.02		
	Scandium 3.71		
	Selenium <3.6		
	Silver 9.4		
	Sodium (%) 0.112		
	Strontium nr		
	Tantalum 0.421		
	Tellurium nr		
	Terbium <0.0886		
	Thorium 4.58		
	Tin nr		
	Tungsten 34.1		
	Uranium 3.45		
	Ytterbium nr		
	Zinc 800		
	Zirconium nr		

#### Control Statistic Details

Control statistics were produced from results accumulated in the October-2013 round robin. The number of results used to certify each analyte is shown in the table above.

#### Material Description

This material is described as a Silica Pyrophyllite from Peru.

#### 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.

20 Hines Road, O'Connor, Western Australia 6163

Phone : +61 8 9314 2566, Fax : +61 8 9314 3699

e-mail : pjh@geostats.com.au, srr@geostats.com.au

Website <http://www.geostats.com.au>

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