

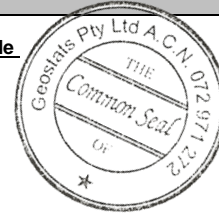
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM917-1

Certified Control Values



GBM917-1

### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	17	3	59	+/- 0.8
Copper (ppm)	79	8	66	+/- 2
Zinc (ppm)	1646	64	73	+/- 14.9
Lead (ppm)	209	11	66	+/- 2.6
Arsenic (ppm)	384	14	54	+/- 3.9
Cobalt (ppm)	15	1	64	+/- 0.4
Silver (ppm)	1.0	0.3	54	+/- 0.08

### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	16	4	54	+/- 1
Copper (ppm)	77	5	60	+/- 1.3
Zinc (ppm)	1646	61	61	+/- 15.8
Lead (ppm)	188	18	64	+/- 4.4
Arsenic (ppm)	374	27	63	+/- 6.8
Cobalt (ppm)	14	1	43	+/- 0.4
Silver (ppm)	0.7	0.2	50	+/- 0.05

### 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 October-2017 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	7.5	Fe
<b>Material Description</b> This material is described as a Stockworked felsic volcanic ex Nullagine.	Arsenic	385	SiO <sub>2</sub>	62.82
	<b>Colour Designation (ISCC-NBS, SP440)</b> This material is pale reddish brown in colour.	Barium	349	Al <sub>2</sub> O <sub>3</sub>
<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>
	<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	15	MnO
<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	4	CaO
	<b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.	Calcium (%)	nr	P
<b>Material Safety</b> This product is not hazardous and non-toxic.		Cerium	40	S
	<b>Neutron Activation</b> Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.  'nr': Not Reported	Chromium	10	MgO
Cobalt		14	K <sub>2</sub> O	3.28
<b>Major Elements by Fusion / XRF (%)</b>	Europium	0.7	Na <sub>2</sub> O	0.28
	Gold (ppb)	26	LOI1000	3.29
<b>Neutron Activation</b> Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.  'nr': Not Reported	Hafnium	<5		
	Iridium (ppb)	<50		
<b>Major Elements by Fusion / XRF (%)</b>	Iron (%)	9.5		
	Lanthanum	21		
<b>Neutron Activation</b> Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.  'nr': Not Reported	Lutetium	0.3		
	Mercury	nr		
<b>Major Elements by Fusion / XRF (%)</b>	Molybdenum	<10		
	Neodymium	nr		
<b>Neutron Activation</b> Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.  'nr': Not Reported	Nickel	<20		
	Potassium (%)	nr		
<b>Major Elements by Fusion / XRF (%)</b>	Rubidium	98		
	Samarium	3.4		
<b>Neutron Activation</b> Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.  'nr': Not Reported	Scandium	11		
	Selenium	<10		
<b>Major Elements by Fusion / XRF (%)</b>	Silver	<5		
	Sodium (%)	0.21		
<b>Neutron Activation</b> Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.  'nr': Not Reported	Strontium	nr		
	Tantalum	<2		
<b>Major Elements by Fusion / XRF (%)</b>	Tellurium	<20		
	Terbium	<1		
<b>Neutron Activation</b> Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.  'nr': Not Reported	Thorium	5.2		
	Tin	<200		
<b>Major Elements by Fusion / XRF (%)</b>	Tungsten	6		
	Uranium	1		
<b>Neutron Activation</b> Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.  'nr': Not Reported	Ytterbium	1.8		
	Zinc	1700		
<b>Major Elements by Fusion / XRF (%)</b>	Zirconium	<500		

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