

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM324-9



### Certified Control Values

#### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	113	9	60	+/- 2.3
Copper (ppm)	4303	232	65	+/- 57.9
Zinc (ppm)	300	17	59	+/- 4.4
Lead (ppm)	127	10	56	+/- 2.6
Arsenic (ppm)	26	3	49	+/- 1
Cobalt (ppm)	51	4	58	+/- 1.1
Silver (ppm)	5.3	0.5	54	+/- 0.13

#### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	98	5	48	+/- 1.4
Copper (ppm)	4403	209	85	+/- 45.4
Zinc (ppm)	272	18	72	+/- 4.3
Lead (ppm)	126	10	71	+/- 2.5
Arsenic (ppm)	26	4	51	+/- 1
Cobalt (ppm)	38	4	57	+/- 1.1
Silver (ppm)	5.3	0.4	71	+/- 0.09

### 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-2024 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	3.2	Fe
<b>Material Description</b> This material is described as a Composite ore Eastern Goldfields.	Arsenic	30	SiO <sub>2</sub>	58.67
	Barium	347	Al <sub>2</sub> O <sub>3</sub>	13.32
<b>Colour Designation (ISCC-NBS, SP440)</b> This material is light olive gray in colour.	Bromine	<2	TiO <sub>2</sub>	0.081
	Cadmium	<10	MnO	1.485
<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.	Caesium	8	CaO	5.98
	Calcium (%)	nr	P	0.134
<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.	Cerium	41	S	0.584
	Chromium	179	MgO	3.34
<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.	Cobalt	58	K <sub>2</sub> O	1.97
	Europium	1.1	Na <sub>2</sub> O	2.929
<b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	1540	LOH1000	1.41
	Hafnium	6	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
<b>Material Safety</b> This product is not hazardous and non-toxic.	Iridium (ppb)	<50	'nr': Not Reported	
	Iron (%)	7.5		
	Lanthanum	21		
	Lutetium	0.4		
	Mercury	nr		
	Molybdenum	21		
	Neodymium	nr		
	Nickel	150		
	Potassium (%)	nr		
	Rubidium	221		
	Samarium	5.1		
	Scandium	22.8		
	Selenium	<10		
	Silver	6		
	Sodium (%)	2.09		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	1		
	Thorium	9.4		
	Tin	<200		
	Tungsten	<1		
	Uranium	5		
	Ytterbium	3		
	Zinc	310		
	Zirconium	<500		

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