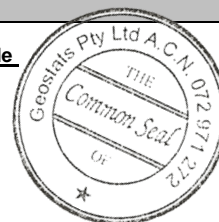


# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM321-9



### Certified Control Values

#### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	116	7	52	+/- 1.9
Copper (ppm)	8216	249	53	+/- 69.3
Zinc (ppm)	404	17	53	+/- 4.8
Lead (ppm)	75	5	46	+/- 1.6
Arsenic (ppm)	17	2	42	+/- 0.7
Cobalt (ppm)	38	2	50	+/- 0.5
Silver (ppm)	4.9	0.3	44	+/- 0.09

#### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	107	7	50	+/- 1.9
Copper (ppm)	8316	303	70	+/- 72.8
Zinc (ppm)	385	23	56	+/- 6.3
Lead (ppm)	72	6	53	+/- 1.8
Arsenic (ppm)	17	2	48	+/- 0.6
Cobalt (ppm)	26	3	51	+/- 0.9
Silver (ppm)	5.0	0.3	61	+/- 0.07

### 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-2021 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	7.9	Fe
<b>Material Description</b> This material is described as a Cu / Gold Sulphide ore.	Arsenic	18	SiO <sub>2</sub>	59.37
	Barium	416	Al <sub>2</sub> O <sub>3</sub>	14.07
<b>Colour Designation (ISCC-NBS, SP440)</b> This material is light gray in colour.	Bromine	<2	TiO <sub>2</sub>	1.064
	Cadmium	<10	MnO	0.11
<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	3	CaO	5.58
	Calcium (%)	nr	P	0.054
<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	38	S	1.03
	Chromium	86	MgO	3.08
<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	40	K <sub>2</sub> O	2.09
	Europium	1	Na <sub>2</sub> O	3.4
<b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	1660	LOH1000	0.94
	Hafnium	<5	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 (%)	6.1		
	Lanthanum	21		
	Lutetium	0.3		
	Mercury	nr		
	Molybdenum	34		
	Neodymium	nr		
	Nickel	129		
	Potassium (%)	nr		
	Rubidium	88		
	Samarium	4.4		
	Scandium	18.2		
	Selenium	<10		
	Silver	<5		
	Sodium (%)	2.29		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	1		
	Thorium	11.9		
	Tin	<200		
	Tungsten	29		
	Uranium	6		
	Ytterbium	2.6		
	Zinc	400		
	Zirconium	<500		

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