

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM325-4



Certified Control Values

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	19222	599	49	+/- 173.8
Copper (ppm)	4698	192	68	+/- 46.7
Zinc (ppm)	1214	74	67	+/- 18.2
Lead (ppm)	51	4	57	+/- 1.1
Arsenic (ppm)	44	3	48	+/- 0.9
Cobalt (ppm)	1008	58	62	+/- 15
Silver (ppm)	54.1	2.3	51	+/- 0.65

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	19116	1056	44	+/- 324.9
Copper (ppm)	4658	274	80	+/- 61.3
Zinc (ppm)	1186	98	64	+/- 24.7
Lead (ppm)	49	3	52	+/- 0.9
Arsenic (ppm)	43	3	46	+/- 1
Cobalt (ppm)	991	68	56	+/- 18.5
Silver (ppm)	53.1	3.2	73	+/- 0.76

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-2025 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	2.5	Fe
Material Description This material is described as a Composite nickel, sulphide.	Arsenic	45	SiO ₂	21.15
	Barium	246	Al ₂ O ₃	2.35
Colour Designation (ISCC-NBS, SP440) This material is very pale orange in colour.	Bromine	8	TiO ₂	0.16
	Cadmium	<10	MnO	0.12
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Caesium	<2	CaO	17.8
	Calcium (%)	nr	P	0.033
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.	Cerium	8	S	7.048
	Chromium	2490	MgO	13.6
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.	Cobalt	1080	K ₂ O	0.137
	Europium	<0.5	Na ₂ O	0.96
Stability This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	843	LOH1000	14.6
	Hafnium	<5	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
Material Safety This product is not hazardous and non-toxic.	Iridium (ppb)	1330	'nr': Not Reported	
	Iron (%)	5.7		
	Lanthanum	4		
	Lutetium	<0.2		
	Mercury	nr		
	Molybdenum	<10		
	Neodymium	nr		
	Nickel	19800		
	Potassium (%)	nr		
	Rubidium	27		
	Samarium	0.7		
	Scandium	9.7		
	Selenium	<10		
	Silver	55		
	Sodium (%)	0.61		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	1		
	Thorium	2.8		
	Tin	<200		
	Tungsten	<2		
	Uranium	<1		
	Ytterbium	<0.5		
	Zinc	1250		
	Zirconium	<500		

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