

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM324-7



Certified Control Values

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	17	3	58	+/- 0.7
Copper (ppm)	2092	78	61	+/- 20.2
Zinc (ppm)	292	19	59	+/- 4.9
Lead (ppm)	1210	118	58	+/- 31.4
Arsenic (ppm)	67	10	50	+/- 2.9
Cobalt (ppm)	15	1	52	+/- 0.4
Silver (ppm)	4.4	0.3	52	+/- 0.09

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	11	1	47	+/- 0.2
Copper (ppm)	2122	82	78	+/- 18.5
Zinc (ppm)	277	20	73	+/- 4.8
Lead (ppm)	1215	118	71	+/- 28.2
Arsenic (ppm)	61	8	54	+/- 2.3
Cobalt (ppm)	10	1	52	+/- 0.4
Silver (ppm)	4.5	0.4	74	+/- 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	77.7	Fe
Material Description This material is described as an Oxide mine composite ore.	Arsenic	83	SiO ₂	56.78
	Barium	364	Al ₂ O ₃	18.21
Colour Designation (ISCC-NBS, SP440) This material is pale red in colour.	Bromine	2.96	TiO ₂	1.01
	Cadmium	<10	MnO	0.07
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	2.66
	Calcium (%)	nr	P	0.039
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	42	S	0.33
	Chromium	64	MgO	1.33
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	16	K ₂ O	2.34
	Europium	0.6	Na ₂ O	2.804
Stability This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	2210	LOH1000	4.48
	Hafnium	10	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)	<50	'nr': Not Reported	
	Iron (%)	6.7		
	Lanthanum	22		
	Lutetium	0.3		
	Mercury	nr		
	Molybdenum	11		
	Neodymium	nr		
	Nickel	<20		
	Potassium (%)	nr		
	Rubidium	122		
	Samarium	3.7		
	Scandium	11.6		
	Selenium	<10		
	Silver	<5		
	Sodium (%)	1.94		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	<1		
	Thorium	35.2		
	Tin	<200		
	Tungsten	3		
	Uranium	9		
	Ytterbium	2.3		
	Zinc	290		
	Zirconium	<500		

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