

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM325-5



Certified Control Values

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	20	2	53	+/- 0.6
Copper (ppm)	25726	754	62	+/- 193
Zinc (ppm)	4777	188	62	+/- 48
Lead (ppm)	537	30	60	+/- 7.7
Arsenic (ppm)	210	20	60	+/- 5.1
Cobalt (ppm)	482	21	60	+/- 5.4
Silver (ppm)	16.6	1.0	59	+/- 0.26

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	19	4	51	+/- 1.1
Copper (ppm)	25432	1046	67	+/- 257
Zinc (ppm)	4638	378	63	+/- 96
Lead (ppm)	530	48	62	+/- 12.3
Arsenic (ppm)	211	16	55	+/- 4.4
Cobalt (ppm)	470	36	55	+/- 9.7
Silver (ppm)	16.3	1.5	74	+/- 0.35

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	10.6	Fe
Material Description This material is described as a Cu / Zn Sulphide Tailings and Feed Composite ex Western Australia.	Arsenic	220	SiO ₂	30.06
	Colour Designation (ISCC-NBS, SP440) This material is medium dark gray in colour.	Barium	<100	Al ₂ O ₃
Usage 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 ₂
	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.	Cadmium	<10	MnO
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.		Caesium	<2	CaO
	Stability This product remains stable in its original packaging, away from direct sunlight.	Calcium (%)	nr	P
Material Safety This product is not hazardous and non-toxic.		Cerium	22	S
	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	Chromium	32	MgO
"nr": Not Reported		Cobalt	520	K ₂ O
	Europium	1.6	Na ₂ O	0.11
Zirconium	Gold (ppb)	1650	LOH1000	13.52
	Hafnium	<5		
	Iridium (ppb)	<50		
	Iron (%)	29.8		
	Lanthanum	12		
	Lutetium	0.3		
	Mercury	nr		
	Molybdenum	<10		
	Neodymium	nr		
	Nickel	<100		
	Potassium (%)	nr		
	Rubidium	<20		
	Samarium	3.1		
	Scandium	8.3		
	Selenium	39		
	Silver	18		
	Sodium (%)	0.06		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	<1		
	Thorium	2		
	Tin	<200		
	Tungsten	5		
	Uranium	<1		
	Ytterbium	1.7		
	Zinc	5100		
	Zirconium	<500		

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