

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM324-3



Certified Control Values

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	14	2	57	+/- 0.4
Copper (ppm)	257	13	62	+/- 3.4
Zinc (ppm)	91	3	52	+/- 1
Lead (ppm)	33	3	53	+/- 0.8
Arsenic (ppm)	1053	51	54	+/- 14
Cobalt (ppm)	13	1	51	+/- 0.2
Silver (ppm)	7.3	0.5	52	+/- 0.14

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	14	2	51	+/- 0.4
Copper (ppm)	258	12	81	+/- 2.6
Zinc (ppm)	88	5	62	+/- 1.2
Lead (ppm)	33	3	64	+/- 0.8
Arsenic (ppm)	1055	62	63	+/- 15.7
Cobalt (ppm)	12	1	54	+/- 0.3
Silver (ppm)	7.4	0.5	74	+/- 0.11

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	37.1	Fe
Material Description This material is described as a Mineralised felsic volcanics and mineralised granite composite - Pilbara, Western Australia.	Arsenic	1100	SiO ₂	65.29
	Colour Designation (ISCC-NBS, SP440) This material is very light gray in colour.	Barium	220	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	8	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	32	S
	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes. 'nr': Not Reported	Chromium	21	MgO
Major Elements by Fusion / XRF (%)		Cobalt	13	K ₂ O
	Europium	0.6	Na ₂ O	0.65
Neutron Activation	Gold (ppb)	405	LOH1000	5.83
	Hafnium	<5		
Neutron Activation	Iridium (ppb)	<50		
	Iron (%)	3.6		
Neutron Activation	Lanthanum	17		
	Lutetium	0.2		
Neutron Activation	Mercury	nr		
	Molybdenum	<10		
Neutron Activation	Neodymium	nr		
	Nickel	<20		
Neutron Activation	Potassium (%)	nr		
	Rubidium	84		
Neutron Activation	Samarium	2.9		
	Scandium	8.5		
Neutron Activation	Selenium	<10		
	Silver	8		
Neutron Activation	Sodium (%)	0.46		
	Strontium	nr		
Neutron Activation	Tantalum	<2		
	Tellurium	<20		
Neutron Activation	Terbium	<1		
	Thorium	7.4		
Neutron Activation	Tin	<200		
	Tungsten	7		
Neutron Activation	Uranium	2		
	Ytterbium	1.4		
Neutron Activation	Zinc	<200		
	Zirconium	<500		

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