

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM924-1



Certified Control Values

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	2761	133	65	+/- 33.2
Copper (ppm)	164	9	61	+/- 2.3
Zinc (ppm)	48	5	53	+/- 1.3
Lead (ppm)	36	3	49	+/- 0.8
Arsenic (ppm)	35	3	50	+/- 0.8
Cobalt (ppm)	61	3	63	+/- 0.9
Silver (ppm)	0.1	nr	nr	nr

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	2670	117	53	+/- 32.6
Copper (ppm)	161	9	79	+/- 2.1
Zinc (ppm)	29	10	61	+/- 2.6
Lead (ppm)	30	3	58	+/- 0.8
Arsenic (ppm)	28	4	55	+/- 1
Cobalt (ppm)	56	4	55	+/- 1.1
Silver (ppm)	0.2	nr	nr	nr

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 October-2024 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	1.4	Fe
Material Description This material is described as an UB cuttings & soil samples.	Arsenic	36	SiO ₂	nr
	Barium	<100	Al ₂ O ₃	nr
Colour Designation (ISCC-NBS, SP440) This material is pale yellowish brown in colour.	Bromine	4	TiO ₂	nr
	Cadmium	<10	MnO	nr
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Caesium	73	CaO	nr
	Calcium (%)	nr	P	nr
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	6	S	nr
	Chromium	1240	MgO	nr
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	63	K ₂ O	nr
	Europium	<0.5	Na ₂ O	nr
Stability This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	193	LOH1000	nr
	Hafnium	7		
Material Safety This product is not hazardous and non-toxic.	Iridium (ppb)	<50	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%)	3.5	'nr': Not Reported	
	Lanthanum	3		
	Lutetium	<0.2		
	Mercury	nr		
	Molybdenum	<10		
	Neodymium	nr		
	Nickel	3000		
	Potassium (%)	nr		
	Rubidium	2030		
	Samarium	0.4		
	Scandium	6		
	Selenium	<10		
	Silver	<5		
	Sodium (%)	1.54		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	<1		
	Thorium	1.4		
	Tin	<200		
	Tungsten	<2		
	Uranium	1		
	Ytterbium	<0.5		
	Zinc	<200		
	Zirconium	<500		

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