

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM923-6

Certified Control Values

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	21	2	50	+/- 0.7
Copper (ppm)	31	3	50	+/- 0.8
Zinc (ppm)	74	3	48	+/- 1
Lead (ppm)	23	3	50	+/- 0.9
Arsenic (ppm)	2	2	14	+/- 1.1
Cobalt (ppm)	20	2	51	+/- 0.4
Silver (ppm)	7.8	0.4	54	+/- 0.12

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	8	1	48	+/- 0.4
Copper (ppm)	28	3	67	+/- 0.9
Zinc (ppm)	41	3	56	+/- 0.7
Lead (ppm)	16	2	56	+/- 0.6
Arsenic (ppm)	2	1	11	+/- 0.6
Cobalt (ppm)	6	1	42	+/- 0.2
Silver (ppm)	7.8	0.4	71	+/- 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 October-2023 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony 0.2	Fe 4.73
	Arsenic <1	SiO ₂ 61.9
	Barium 336	Al ₂ O ₃ 15.44
	Bromine <2	TiO ₂ 0.979
	Cadmium <10	MnO 0.1
	Caesium 6	CaO 5.15
	Calcium (%) nr	P 0.059
	Cerium 33	S 0.03
	Chromium 95	MgO 2.73
	Cobalt 20	K ₂ O 2.6
	Europium 1.1	Na ₂ O 3.301
	Gold (ppb) 2950	LOH1000 0.83
	Hafnium <5	
	Iridium (ppb) <50	Neutron Activation
	Iron (%) 4.8	Analyses and Fusion /
	Lanthanum 18	XRF Analyses are
	Lutetium 0.3	single results and are
	Mercury nr	indicative only. These
	Molybdenum 17	are provided for matrix
	Neodymium nr	identification purposes.
	Nickel <100	
	Potassium (%) nr	'nr': Not Reported
	Rubidium 247	
	Samarium 4	
	Scandium 16.4	
	Selenium <10	
	Silver 7	
	Sodium (%) 2.39	
	Strontium nr	
	Tantalum <2	
	Tellurium <20	
	Terbium <1	
	Thorium 11.5	
	Tin <200	
	Tungsten 2	
	Uranium 6	
	Ytterbium 2.5	
	Zinc <200	
	Zirconium <500	

Material Description
This material is described as an Oxide supergene ore.

Colour Designation (ISCC-NBS, SP440)
This material is light gray in colour.

Usage
This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.

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.

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.

Stability
This product remains stable in its original packaging, away from direct sunlight.

Material Safety
This product is not hazardous and non-toxic.

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