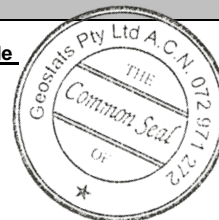


GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM321-1



Certified Control Values

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	44	3	53	+/- 0.7
Copper (ppm)	1034	32	54	+/- 8.8
Zinc (ppm)	85	4	52	+/- 1.1
Lead (ppm)	20	2	45	+/- 0.7
Arsenic (ppm)	27	2	42	+/- 0.7
Cobalt (ppm)	15	1	46	+/- 0.3
Silver (ppm)	0.8	0.2	46	+/- 0.05

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	41	3	47	+/- 0.8
Copper (ppm)	1032	34	70	+/- 8.1
Zinc (ppm)	80	6	56	+/- 1.5
Lead (ppm)	14	2	45	+/- 0.6
Arsenic (ppm)	26	1	45	+/- 0.4
Cobalt (ppm)	14	1	46	+/- 0.3
Silver (ppm)	0.7	0.1	48	+/- 0.04

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-2021 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	5.3	Fe
Material Description This material is described as an Archean porphyry-style Cu/Au/Mo.	Arsenic	27	SiO ₂	63.49
	Colour Designation (ISCC-NBS, SP440) This material is very light gray in colour.	Barium	175	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	5	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	34	S
	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	Chromium	74	MgO
"nr": Not Reported		Cobalt	15	K ₂ O
	Europium	0.8	Na ₂ O	3.31
LOH1000	Gold (ppb)	442		1.61
	Hafnium	<5		
Iridium (ppb)	<50			
Iron (%)	4.1			
Lanthanum	17			
Lutetium	0.2			
Mercury	nr			
Molybdenum	25			
Neodymium	nr			
Nickel	49			
Potassium (%)	nr			
Rubidium	101			
Samarium	3.3			
Scandium	10.6			
Selenium	<10			
Silver	<5			
Sodium (%)	2.34			
Strontium	nr			
Tantalum	<2			
Tellurium	<20			
Terbium	<1			
Thorium	6.14			
Tin	<200			
Tungsten	25			
Uranium	2			
Ytterbium	1.1			
Zinc	<200			
Zirconium	<500			

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