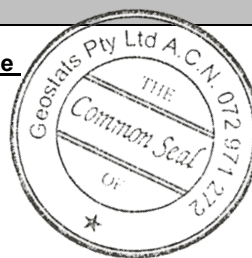


GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM316-11



Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	18	5	65	+/- 1
Copper (ppm)	22212	728	251	+/- 91
Zinc (ppm)	10044	432	220	+/- 57
Lead (ppm)	1054	60	99	+/- 12
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	21.6	1.4	231	+/- 0.18
Sulphur (%)	18.00	0.50	174	+/- 0.07

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-2016, April-2018 round robins. The number of results used to certify each analyte is shown in the table above.	Antimony	15.4	Fe	23.52
Material Description	Arsenic	247	SiO ₂	39.35	
	This material is described as a Chalcopyrite with minor sphalerite and galena ex WA.	Barium	<50	Al ₂ O ₃	5.25
Colour Designation (ISCC-NBS, SP440)	Bromine	<2	TiO ₂	0.185	
	This material is dark gray in colour.	Cadmium	34	MnO	0.12
Usage	Caesium	3	CaO	1.1	
	This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Calcium (%)	nr	P	0.036
Preparation and Packaging	Cerium	24.95	S	18.2	
	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.	Chromium	27	MgO	2.63
Assay Testwork	Cobalt	438	K ₂ O	0.225	
	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.	Europium	1.3	Na ₂ O	0.222
Stability	Gold (ppb)	355	LOI1000	13.7	
	This product remains stable in its original packaging, away from direct sunlight.	Hafnium	<5		
Material Safety	Iridium (ppb)	<50			Neutron Activation
	This product is not hazardous and non-toxic.	Iron (%)	23.05		Analyses and Fusion / XRF Analyses are
	Lanthanum	12.5			single results and are
	Lutetium	0.37			indicative only. These
	Mercury	nr			are provided for matrix
	Molybdenum	<10			identification purposes.
	Neodymium	nr			
	Nickel	24			
	Potassium (%)	nr			
	Rubidium	<20			'nr': Not Reported
	Samarium	2.9			
	Scandium	6.85			
	Selenium	38.5			
	Silver	21			
	Sodium (%)	0.122			
	Strontium	nr			
	Tantalum	<2			
	Tellurium	<20			
	Terbium	<1			
	Thorium	1.7			
	Tin	<200			
	Tungsten	<5			
	Uranium	1			
	Ytterbium	1.65			
	Zinc	10500			
	Zirconium	<500			

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