Pty Ltd A

Major Elements by

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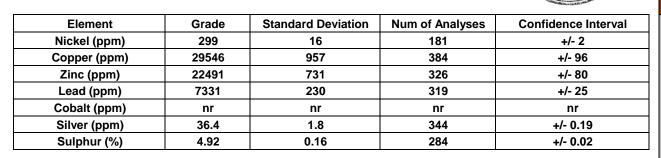
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM319-14

Certified Control Values



CRM Details

Control	Statistic	Details

Control statistics were produced from results accumulated in the April-2015, October-2018, April-2019 round robins. The number of results used to certify each analyte is shown in the table above.

Material Description

This material is described as a Sulphide gold copper lead zinc ore.

Colour Designation (ISCC-NBS, SP440)

This material is medium 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.

Analysis Results (ppm,		Fusion / XRF (%)	
unless otherwi	se noted)		
Antimony	547	Fe	8.65
Arsenic	848.5	SiO ₂	50.2
Barium	237.75	Al ₂ O ₃	11.22
Bromine	<1	TiO ₂	1.16
Cadmium	41.5	MnO	0.13
Caesium	1	CaO	5.42
Calcium (%)	nr	Р	0.062
Cerium	34.5	S	4.93
Chromium	109.75	MgO	3.42
Cobalt	96	K ₂ O	1.56
Europium	1.45	Na ₂ O	2.35
Gold (ppb)	26600	LOI1000	3.49
Hafnium	<1		
Iridium (ppb)	<50	Neutron Activation	
Iron (%)	8.525	Analyses and Fusion	
Lanthanum	17.5	XRF Analyses are	
Lutetium	0.425	single results and are	
Mercury	nr	indicative only. These	
Molybdenum	97.75	are provided for matrix	
Neodymium	nr	identification	
Nickel	312.75	purposes.	
Potassium (%)	nr	. '	
Rubidium	60	'nr': Not Rep	orted
Samarium	4.075		
Scandium	19.2		
Selenium	23.25		
Silver	34.75		
Sodium (%)	1.763		
Strontium	nr		
Tantalum	0.9		
Tellurium	<20		
Terbium	1.3		
Thorium	8.3		
Tin	<200		
Tungsten	6		
Uranium	5.075		
Ytterbium	2.5		
Zinc	22750		
Zirconium	<500		
Lii coriium	<300	L	

Neutron Activation

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