

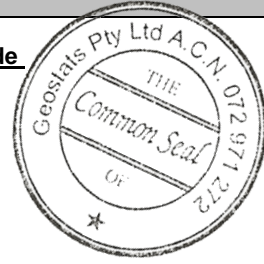
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

## GBM321-16

Certified Control Values



GBM321-16

Geostats Pty Ltd, Certified Ore Grade Base Metal Reference Material, Product Code:

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	65	10	73	+/- 2
Copper (ppm)	69389	2531	149	+/- 411
Zinc (ppm)	1007	47	84	+/- 10
Lead (ppm)	677	61	104	+/- 12
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	22.0	1.6	109	+/- 0.3
Sulphur (%)	7.47	0.27	109	+/- 0.05

### CRM Details

<u>Control Statistic Details</u>	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	<u>Major Elements by Fusion / XRF (%)</u>	
Control statistics were produced from results accumulated in the October-2008, April-2021 round robins. The number of results used to certify each analyte is shown in the table above.	Antimony 28.3	Fe	10.8
	Arsenic 311	SiO <sub>2</sub>	45.64
	Barium 408	Al <sub>2</sub> O <sub>3</sub>	10.89
	Bromine <2	TiO <sub>2</sub>	0.99
	Cadmium <10	MnO	0.1
	Caesium <2	CaO	4.71
	Calcium (%) nr	P	0.049
	Cerium 38	S	7.52
	Chromium 95	MgO	2.91
	Cobalt 284	K <sub>2</sub> O	1.53
	Europium 0.8	Na <sub>2</sub> O	2.55
	Gold (ppb) 6940	LOI1000	5.74
	Hafnium <5	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iridium (ppb) <50	'nr': Not Reported	
	Iron (%) 11.1		
	Lanthanum 25		
	Lutetium 0.3		
	Mercury nr		
	Molybdenum 283		
	Neodymium nr		
	Nickel 75		
	Potassium (%) nr		
	Rubidium 64		
	Samarium 4.2		
	Scandium 17.1		
	Selenium 24		
	Silver 24		
	Sodium (%) 1.8		
	Strontium nr		
	Tantalum <2		
	Tellurium <20		
	Terbium 1		
	Thorium 9.79		
	Tin <200		
	Tungsten 7		
	Uranium 7		
	Ytterbium 2		
	Zinc 1070		
	Zirconium <500		
<u>Material Description</u> This material is described as a Copper Sulphide Ore High Grade.			
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is medium gray in colour.			
<u>Usage</u> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.			
<u>Preparation and Packaging</u> 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.			
<u>Assay Testwork</u> 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.			
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.			
<u>Material Safety</u> This product is not hazardous and non-toxic.			

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