

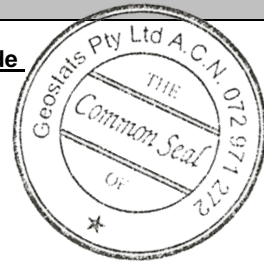
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

## GBM320-14

Certified Control Values



GBM320-14

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

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	486	31	81	+/- 7
Copper (ppm)	172671	6969	215	+/- 939
Zinc (ppm)	22911	1136	153	+/- 182
Lead (ppm)	529	52	133	+/- 9
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	10.6	1.1	143	+/- 0.19
Sulphur (%)	29.11	1.20	179	+/- 0.18

### 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-2009 & April-2020 round robins. The number of results used to certify each analyte is shown in the table above.	Antimony 2.2	Fe	23.3
	Arsenic 104	SiO <sub>2</sub>	12.73
	Barium <100	Al <sub>2</sub> O <sub>3</sub>	1.64
	Bromine <2	TiO <sub>2</sub>	0.08
	Cadmium 82	MnO	0.02
	Caesium <2	CaO	0.36
	Calcium (%) nr	P	0.022
	Cerium 5	S	28.54
	Chromium 18	MgO	2.81
	Cobalt 309	K <sub>2</sub> O	0.09
	Europium <0.5	Na <sub>2</sub> O	0.15
	Gold (ppb) 186	LOI1000	25.46
	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 (%) 23.5		
	Lanthanum 4		
	Lutetium <0.2		
	Mercury nr		
	Molybdenum <10		
	Neodymium nr		
	Nickel 505		
	Potassium (%) nr		
	Rubidium <20		
	Samarium 0.8		
	Scandium 2.2		
	Selenium 567		
	Silver 11		
	Sodium (%) 0.053		
	Strontium nr		
	Tantalum <2		
	Tellurium 67		
	Terbium 1		
	Thorium 0.9		
	Tin <200		
	Tungsten <5		
	Uranium 1		
	Ytterbium <0.5		
	Zinc 23000		
	Zirconium <500		
<u>Material Description</u> This material is described as a Cu Con. Ex Pilbara.			
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is olive black 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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