

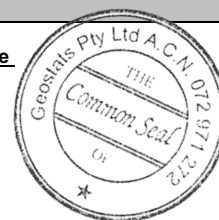
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM315-10

Certified Control Values



GBM315-10

### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	17	3	61	+/- 0.7
Copper (ppm)	2646	88	74	+/- 20.5
Zinc (ppm)	66	5	61	+/- 1.2
Lead (ppm)	33	4	64	+/- 1
Arsenic (ppm)	4	3	19	+/- 1.6
Cobalt (ppm)	14	2	62	+/- 0.4
Silver (ppm)	4.7	0.4	64	+/- 0.09

### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	9	1	50	+/- 0.4
Copper (ppm)	2678	117	83	+/- 25.7
Zinc (ppm)	43	4	65	+/- 1
Lead (ppm)	23	3	62	+/- 0.7
Arsenic (ppm)	2	1	11	+/- 0.8
Cobalt (ppm)	7	2	59	+/- 0.6
Silver (ppm)	4.7	0.4	65	+/- 0.09

### CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Major Elements by Fusion / XRF (%)	
		Element	Value
Control statistics were produced from results accumulated in the April-2015 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony <0.1	Fe	3.552
	Arsenic <1	SiO <sub>2</sub>	67.3
	Barium 590	Al <sub>2</sub> O <sub>3</sub>	13.71
	Bromine <0.5	TiO <sub>2</sub>	0.77
	Cadmium <5	MnO	0.08
	Caesium 3.8	CaO	3.86
	Calcium (%) nr	P	0.045
	Cerium 45	S	0.068
	Chromium 60	MgO	1.9
	Cobalt 14	K <sub>2</sub> O	3.01
	Europium 1	Na <sub>2</sub> O	3.33
	Gold (ppb) 328	LOI1000	0.62
	Hafnium 5		
	Iridium (ppb) <50	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%) 3.6	'nr': Not Reported	
	Lanthanum 29		
	Lutetium 0.3		
	Mercury nr		
	Molybdenum <2		
	Neodymium nr		
	Nickel 16		
	Potassium (%) nr		
	Rubidium 150		
	Samarium 4.4		
	Scandium 12.7		
	Selenium <10		
	Silver 5		
	Sodium (%) 2.4		
	Strontium nr		
	Tantalum 1.5		
	Tellurium nr		
	Terbium 0.8		
	Thorium 24.6		
	Tin nr		
	Tungsten <1		
	Uranium 10.7		
	Ytterbium <2		
	Zinc 47		
	Zirconium nr		
<b>Material Description</b> This material is described as a Low grade Cu / Au ore - This material also certified for partial digests.			
<b>Colour Designation (ISCC-NBS, SP440)</b> This material is light gray in colour.			
<b>Usage</b> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.			
<b>Preparation and Packaging</b> 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.			
<b>Assay Testwork</b> 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.			
<b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.			
<b>Material Safety</b> This product is not hazardous and non-toxic.			

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