

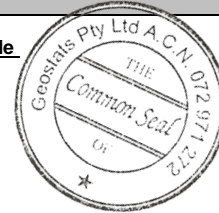
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM916-9

Certified Control Values



GBM916-9

### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	26	3	64	+/- 0.8
Copper (ppm)	5257	204	71	+/- 48.5
Zinc (ppm)	29716	1641	57	+/- 439.4
Lead (ppm)	2710	158	69	+/- 38.2
Arsenic (ppm)	233	18	55	+/- 4.8
Cobalt (ppm)	44	2	61	+/- 0.6
Silver (ppm)	40.6	2.0	67	+/- 0.5

### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	22	3	63	+/- 0.7
Copper (ppm)	5344	343	88	+/- 73.2
Zinc (ppm)	30340	1822	56	+/- 492.4
Lead (ppm)	2778	178	72	+/- 42.2
Arsenic (ppm)	231	12	60	+/- 3.2
Cobalt (ppm)	41	3	59	+/- 0.7
Silver (ppm)	40.3	1.7	76	+/- 0.4

### CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Major Elements by Fusion / XRF (%)	
		Fe	7.105
<p>Control statistics were produced from results accumulated in the October-2016 round robin. The number of results used to certify each analyte is shown in the table above.</p>	Antimony 36.7	SiO <sub>2</sub> 54.67	
<p><b>Material Description</b> This material is described as a Zn / Cu / Pb / Ag Sulphide Composite.</p>	Arsenic 250	Al <sub>2</sub> O <sub>3</sub> 12.74	
<p><b>Colour Designation (ISCC-NBS, SP440)</b> This material is medium light gray in colour.</p>	Barium 1770	TiO <sub>2</sub> 0.78	
<p><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.</p>	Bromine <2	MnO 0.1	
<p><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.</p>	Cadmium 86.1	CaO 3.86	
<p>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.</p>	Caesium <1	P 0.105	
<p><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.</p>	Calcium (%) nr	S 3.9	
<p><b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.</p>	Cerium 138	MgO 2.46	
<p><b>Material Safety</b> This product is not hazardous and non-toxic.</p>	Chromium 25.8	K <sub>2</sub> O 3.31	
	Cobalt 45	Na <sub>2</sub> O 2.41	
	Europium 1.34	LOI1000 3.16	
	Gold (ppb) 268		
	Hafnium 6		
	Iridium (ppb) <50		
	Iron (%) 7.1		
	Lanthanum 78.9		
	Lutetium 0.35		
	Mercury nr		
	Molybdenum <10		
	Neodymium nr		
	Nickel 24		
	Potassium (%) nr		
	Rubidium 91		
	Samarium 8.5		
	Scandium 12.7		
	Selenium <10		
	Silver 44		
	Sodium (%) 1.76		
	Strontium nr		
	Tantalum <2		
	Tellurium <20		
	Terbium <1		
	Thorium 23.3		
	Tin <200		
	Tungsten <5		
	Uranium 3		
	Ytterbium 1.88		
	Zinc 30000		
	Zirconium <500		

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