

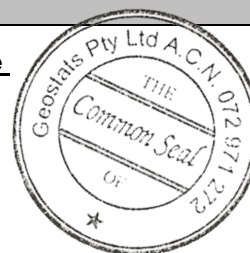
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM900-4

Certified Control Values



GBM900-4

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

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	1294	97	169	+/- 14.8
Copper (ppm)	1032	54	200	+/- 7.6
Zinc (ppm)	87	12	182	+/- 1.8
Lead (ppm)	44	8	176	+/- 1.2
Arsenic (ppm)	2448	160	159	+/- 25.1
Cobalt (ppm)	67	8	156	+/- 1.2
Silver (ppm)	1.5	0.5	147	+/- 0.1

### CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the October-1999, April-2000 & October-2000 round robins. The number of results used to certify each analyte is shown in the table above.	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>		<u>Major Elements by Fusion / XRF (%)</u>	
	<u>Material Description</u> This material is described as a Gold composite Ore Sulphide various locations.	Antimony	920.333	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is light olive gray in colour.	Arsenic	2473.333	SiO <sub>2</sub>	nr
<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.	Barium	395	Al <sub>2</sub> O <sub>3</sub>	nr
<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.	Bromine	2.447	TiO <sub>2</sub>	nr
<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.	Cadmium	nr	MnO	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Caesium	12.7	CaO	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	3.09	P	nr
	Cerium	25.067	S	nr
	Chromium	387	MgO	nr
	Cobalt	67.967	K <sub>2</sub> O	nr
	Europium	0.807	Na <sub>2</sub> O	nr
	Gold (ppb)	6043.333	LOI1000	nr
	Hafnium	0.507		
	Iridium (ppb)	333333333	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%)	7.99	nr: Not Reported	
	Lanthanum	11.567		
	Lutetium	0.003		
	Mercury	nr		
	Molybdenum	<5		
	Neodymium	nr		
	Nickel	nr		
	Potassium (%)	1.977		
	Rubidium	147.333		
	Samarium	3.043		
	Scandium	21.2		
	Selenium	666666666667		
	Silver	<5		
	Sodium (%)	1.009		
	Strontium	nr		
	Tantalum	0.227		
	Tellurium	666666666667		
	Terbium	nr		
	Thorium	3.74		
	Tin	nr		
	Tungsten	45.467		
	Uranium	<2		
	Ytterbium	1.827		
	Zinc	131.667		
	Zirconium	<500		

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