

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Base Metal Reference Material Product Code

# GBM998-10

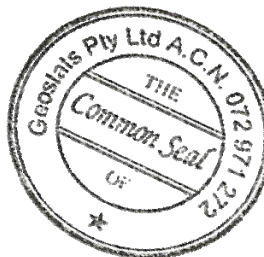
## Certified Control Values

### Base Metal Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Nickel (ppm)	23610	1410	113	+/- 263.9
Copper (ppm)	15414	854	150	+/- 138.2
Zinc (ppm)	90	14	127	+/- 2.5
Lead (ppm)	41	14	129	+/- 2.4
Arsenic (ppm)	25	10	90	+/- 2
Cobalt (ppm)	1202	159	124	+/- 28.4
Silver (ppm)	3.5	0.9	117	+/- 0.2

## CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm)		Major Elements Fusion / XRF (%)	
	Control statistics were produced from results accumulated in the : <u>April-2008</u> Geostats Pty Ltd Laboratory Round Robin Program. <u>90</u> laboratories (at least) tested this material for base metal content.	Antimony	0.1	Fe
<b>Source Material</b> Prior to homogenisation and testing, this material was sourced from Nickel ore ex Pilbara	Arsenic	29.2	SiO <sub>2</sub>	nr
<b>Colour Designation</b> Olive gray	Barium	<100	Al <sub>2</sub> O <sub>3</sub>	nr
<b>Usage</b> This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.	Bromine	<2	TiO <sub>2</sub>	nr
<b>Preparation and Packaging</b> All standards are dried in an oven for a minimum of 12 hours at 110C. 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.	Cadmium	nr	MnO	nr
<b>Assay Testwork</b> All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by a minimum of 50 reputable laboratories selected from across the world using a variety of methods (including AR, 3AD, 4AD and ICP, AAS and XRF). 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.	Cerium	13	CaO	nr
	Caesium	<3	P	nr
	Chromium	242.5	S	nr
	Cobalt	1360	MgO	nr
	Europium	0	K <sub>2</sub> O	nr
	Gold ppb	1065	Na <sub>2</sub> O	nr
	Hafnium	0.925	LOI1000	nr
	Iridium ppb	152		
	Iron %	38.25		
	Lanthanum	6.69		
	Lutetium	<0.2		
	Molybdenum	<5		
	Nickel	nr		
	Rubidium	<30		
	Samarium	1.285		
	Scandium	9.73		
	Selenium	10.15		
	Sodium %	0.396		
	Tantalum	<3		
	Tellurium	<5		
	Terbium	nr		
	Thorium	<0.5		
	Tin	nr		
	Tungsten	<6		
	Uranium	<2		
	Ytterbium	0.5		
	Zinc	<100		
	Zirconium	<500		
	Calcium%	3.465		
	Potassium %	<0.2		
	Silver	<5		
	Mercury	nr		
	Neodymium	nr		
	Strontium	nr		



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