

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Base Metal Reference Material Product Code

GBM910-1

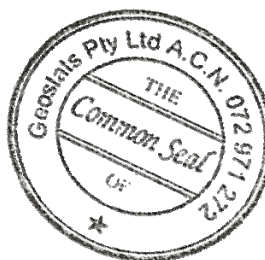
Certified Control Values

Base Metal Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Nickel (ppm)	16	6	73	+/- 1.5
Copper (ppm)	32	7	85	+/- 1.6
Zinc (ppm)	61	19	87	+/- 4.1
Lead (ppm)	20	5	77	+/- 1.1
Arsenic (ppm)	5	5	26	+/- 1.9
Cobalt (ppm)	15	7	73	+/- 1.5
Silver (ppm)	7.9	0.8	81	+/- 0.17

CRM Details

Control Statistic Details	Neutron Activation		Major Elements	
	Analysis Results (ppm)		Fusion / XRF (%)	
Control statistics were produced from results accumulated in the : <u>October-2010</u> Geostats Pty Ltd Laboratory Round Robin Program. <u>26</u> laboratories (at least) tested this material for base metal content.	Antimony	0.173	Fe	4.73
	Arsenic	<0.348	SiO ₂	61.9
	Barium	366	Al ₂ O ₃	15.44
	Bromine	0.55	TiO ₂	0.979
	Cadmium	<5	MnO	0.1
	Cerium	33.1	CaO	5.15
	Caesium	6.82	P	0.059
	Chromium	94	S	0.03
	Cobalt	20.5	MgO	2.73
	Europium	<1	K ₂ O	2.6
	Gold ppb	3490	Na ₂ O	3.301
	Hafnium	4.27	LOI1000	0.83
	Iridium ppb	<20		
	Iron %	4.69		
	Lanthanum	18.3		
	Lutetium	0.357		
	Molybdenum	17.8		
	Nickel	<20		
	Rubidium	260		
	Samarium	3.93		
	Scandium	17.2		
	Selenium	<5		
	Sodium %	2.45		
	Tantalum	1.55		
	Tellurium	<20		
	Terbium	0.732		
	Thorium	12.3		
	Tin	<100		
	Tungsten	<2		
	Uranium	6.05		
	Ytterbium	2.48		
	Zinc	77.2		
	Zirconium	<500		
	Calcium%	nr		
	Potassium %	nr		
	Silver	8.24		
	Mercury	nr		
	Neodymium	nr		
	Strontium	nr		



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October-2010 Geostats Pty Ltd Laboratory Round Robin Program.
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Source Material

Prior to homogenisation and testing, this material was sourced from Oxide supergene ore

Colour Designation

Light Gray

Usage

This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.

Preparation and Packaging

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.

Assay Testwork

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.

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