

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Base Metal Reference Material Product Code

GBM302-1

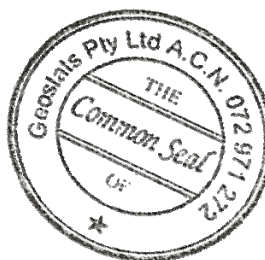
Certified Control Values

Base Metal Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Nickel (ppm)	1180	82	102	+/- 16.2
Copper (ppm)	120	11	111	+/- 2
Zinc (ppm)	230	48	117	+/- 8.8
Lead (ppm)	38	7	102	+/- 1.4
Arsenic (ppm)	748	50	101	+/- 9.9
Cobalt (ppm)	159	14	101	+/- 2.8
Silver (ppm)	0.9	0.9	43	+/- 0.3

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-2005</u> Geostats Pty Ltd Laboratory Round Robin Program. <u>43</u> laboratories (at least) tested this material for base metal content.	Antimony	4.455	Fe	nr
	Arsenic	761.5	SiO ₂	nr
	Barium	170	Al ₂ O ₃	nr
	Bromine	7.905	TiO ₂	nr
	Cadmium	<5	MnO	nr
	Cerium	40.85	CaO	nr
	Caesium	1.925	P	nr
	Chromium	2170	S	nr
	Cobalt	172.5	MgO	nr
	Europium	1.98	K ₂ O	nr
	Gold ppb	2335	Na ₂ O	nr
	Hafnium	1.325	LOI1000	nr
	Iridium ppb	<50		
	Iron %	9.66		
	Lanthanum	15.7		
	Lutetium	0.43		
	Molybdenum	<5		
	Nickel	1200		
	Rubidium	27		
	Samarium	5.635		
	Scandium	33.85		
	Selenium	<5		
	Sodium %	0.6525		
	Tantalum	<1		
	Tellurium	<10		
	Terbium	0.7		
	Thorium	1.525		
	Tin	<100		
	Tungsten	22.8		
	Uranium	2.2		
	Ytterbium	2.74		
	Zinc	271		
	Zirconium	<500		
	Calcium%	2.71		
	Potassium %	<0.2		
	Silver	2		
	Mercury	nr		
	Neodymium	nr		
	Strontium	nr		



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Source Material

Prior to homogenisation and testing, this material was sourced from Oxide ore ex Southern Cross W.A.

Colour Designation

Grayish orange

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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