

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Base Metal Reference Material Product Code

GBM302-10

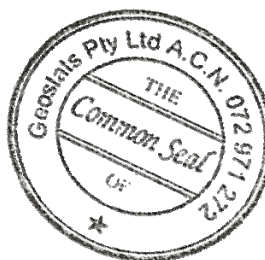
Certified Control Values

Base Metal Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Nickel (ppm)	26	5	44	+/- 1.5
Copper (ppm)	4278	200	62	+/- 51.2
Zinc (ppm)	143305	6403	57	+/- 1714
Lead (ppm)	55869	1814	45	+/- 551.1
Arsenic (ppm)	267	30	46	+/- 9
Cobalt (ppm)	6	2	39	+/- 0.7
Silver (ppm)	75.7	6.5	58	+/- 1.7

CRM Details

Control Statistic Details	Neutron Activation		Major Elements	
	Analysis Results (ppm)		Fusion / XRF (%)	
Control statistics were produced from results accumulated in the : <u>April-2002</u> Geostats Pty Ltd Laboratory Round Robin Program. <u>39</u> laboratories (at least) tested this material for base metal content.	Antimony	164	Fe	nr
	Arsenic	287	SiO ₂	nr
	Barium	541	Al ₂ O ₃	nr
	Bromine	3.43	TiO ₂	nr
	Cadmium	nr	MnO	nr
	Cerium	64.5	CaO	nr
	Caesium	4.61	P	nr
	Chromium	8.4	S	nr
	Cobalt	5.35	MgO	nr
	Europium	0.77	K ₂ O	nr
	Gold ppb	1210	Na ₂ O	nr
	Hafnium	4.07	LOI1000	nr
	Iridium ppb	<20		
	Iron %	6.07		
	Lanthanum	35.1		
	Lutetium	0.3		
	Molybdenum	<5		
	Nickel	nr		
	Rubidium	128		
	Samarium	4.34		
	Scandium	5.09		
	Selenium	<5		
	Sodium %	0.188		
	Tantalum	<1		
	Tellurium	<5		
	Terbium	nr		
	Thorium	12.4		
	Tin	nr		
	Tungsten	10.5		
	Uranium	<2		
	Ytterbium	2.14		
	Zinc	143000		
	Zirconium	<500		
	Calcium%	<1		
	Potassium %	2.51		
	Silver	62.5		
	Mercury	nr		
	Neodymium	nr		
	Strontium	nr		



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Source Material

Prior to homogenisation and testing, this material was sourced from Pb Zn ore Tasmania

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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