

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Base Metal Reference Material Product Code

GBM305-1

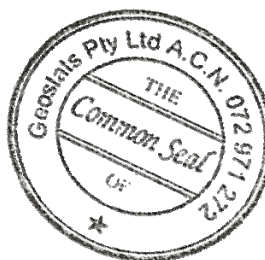
Certified Control Values

Base Metal Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Nickel (ppm)	351	29	50	+/- 8.3
Copper (ppm)	175	12	55	+/- 3.2
Zinc (ppm)	217	22	57	+/- 6
Lead (ppm)	29	6	52	+/- 1.7
Arsenic (ppm)	795	57	48	+/- 16.8
Cobalt (ppm)	46	7	52	+/- 1.9
Silver (ppm)	0.6	0.3	27	+/- 0.1

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-2005</u> Geostats Pty Ltd Laboratory Round Robin Program. <u>27</u> laboratories (at least) tested this material for base metal content.	Antimony	2.8	Fe	nr
	Arsenic	820	SiO ₂	nr
	Barium	160	Al ₂ O ₃	nr
	Bromine	3.6	TiO ₂	nr
	Cadmium	<5.1	MnO	nr
	Cerium	19.9	CaO	nr
	Caesium	3.97	P	nr
	Chromium	575	S	nr
	Cobalt	52	MgO	nr
	Europium	0.835	K ₂ O	nr
	Gold ppb	2500	Na ₂ O	nr
	Hafnium	3.25	LOI1000	nr
	Iridium ppb	<5.5		
	Iron %	7.6		
	Lanthanum	8.48		
	Lutetium	0.374		
	Molybdenum	5.5		
	Nickel	400		
	Rubidium	37		
	Samarium	2.83		
	Scandium	29.5		
	Selenium	<1.3		
	Sodium %	1.6		
	Tantalum	0.612		
	Tellurium	<4.7		
	Terbium	0.67		
	Thorium	2.8		
	Tin	<81		
	Tungsten	56.3		
	Uranium	0.67		
	Ytterbium	2.32		
	Zinc	240		
	Zirconium	<250		
	Calcium%	nr		
	Potassium %	0.75		
	Silver	<1.5		
	Mercury	<0.17		
	Neodymium	9.72		
	Strontium	nr		



Control Statistic Details

Control statistics were produced from results accumulated in the :
April-2005 Geostats Pty Ltd Laboratory Round Robin Program.
27 laboratories (at least) tested this material for base metal content.

Source Material

Prior to homogenisation and testing, this material was sourced from Sulphide gold ore ex Murchison area

Colour Designation

Very 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.

10A Marsh Close, O'Connor, Western Australia 6163
Phone : +61 8 9314 2566, Fax : +61 8 9314 3699
e-mail : pjh@geostats.com.au, srr@geostats.com.au
Website <http://www.geostats.com.au>

GBM305-1

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