

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Base Metal Reference Material Product Code

GBM301-10

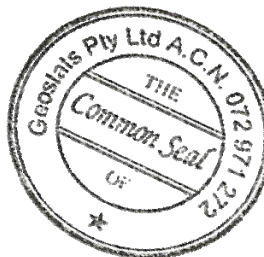
Certified Control Values

Base Metal Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Nickel (ppm)	534	50	63	+/- 12.6
Copper (ppm)	1226	89	73	+/- 20.8
Zinc (ppm)	2262	148	70	+/- 35.6
Lead (ppm)	610	53	69	+/- 12.8
Arsenic (ppm)	100060	5306	51	+/- 1507
Cobalt (ppm)	253	28	59	+/- 7.3
Silver (ppm)	6.5	1.6	64	+/- 0.4

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-2001</u> Geostats Pty Ltd Laboratory Round Robin Program. <u>51</u> laboratories (at least) tested this material for base metal content.	Antimony	563	Fe
Source Material Prior to homogenisation and testing, this material was sourced from Sulphide concentrate with arseno-pyrite	Arsenic	85700	SiO ₂	nr
Colour Designation Grayish black	Barium	<400	Al ₂ O ₃	nr
Usage This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.	Bromine	<5	TiO ₂	nr
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.	Cadmium	nr	MnO	nr
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.	Cerium	204	CaO	nr
	Caesium	<3	P	nr
	Chromium	204	S	nr
	Cobalt	221	MgO	nr
	Europium	3.94	K ₂ O	nr
	Gold ppb	64800	Na ₂ O	nr
	Hafnium	<3	LOI1000	nr
	Iridium ppb	<60		
	Iron %	21.8		
	Lanthanum	103		
	Lutetium	0.25		
	Molybdenum	<40		
	Nickel	nr		
	Rubidium	<20		
	Samarium	18		
	Scandium	10.6		
	Selenium	<20		
	Sodium %	0.125		
	Tantalum	<1		
	Tellurium	<20		
	Terbium	nr		
	Thorium	25.3		
	Tin	nr		
	Tungsten	266		
	Uranium	<10		
	Ytterbium	2.01		
	Zinc	1580		
	Zirconium	<1000		
	Calcium%	<1		
	Potassium %	<1		
	Silver	<15		
	Mercury	nr		
	Neodymium	nr		
	Strontium	nr		



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