

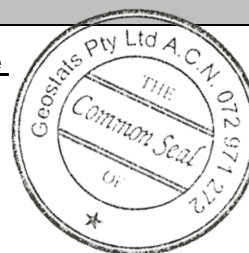
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM910-1

Certified Control Values



GBM910-1

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

Element	Grade	Standard Deviation	Num 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	nr	nr	nr
Cobalt (ppm)	15	7	73	+/- 1.5
Silver (ppm)	7.9	0.8	81	+/- 0.17

CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the October-2010 round robin. The number of results used to certify each analyte is shown in the table above.	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>		<u>Major Elements by Fusion / XRF (%)</u>	
	<u>Material Description</u> This material is described as an Oxide supergene ore.	Antimony	0.173	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is light gray in colour.	Arsenic	<0.348	SiO ₂	61.9
<u>Usage</u> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Barium	366	Al ₂ O ₃	15.44
<u>Preparation and Packaging</u> All CRMs are dried in an oven for a minimum of 12 hours at 110°C. 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.	Bromine	0.55	TiO ₂	0.979
<u>Assay Testwork</u> All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by multiple laboratories from around the world. 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.	Cadmium	<5	MnO	0.1
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Caesium	6.82	CaO	5.15
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	nr	P	0.059
	Cerium	33.1	S	0.03
	Chromium	94	MgO	2.73
	Cobalt	20.5	K ₂ O	2.6
	Europium	<1	Na ₂ O	3.301
	Gold (ppb)	3490	LOI1000	0.83
	Hafnium	4.27		
	Iridium (ppb)	<20		
	Iron (%)	4.69		
	Lanthanum	18.3		
	Lutetium	0.357		
	Mercury	nr		
	Molybdenum	17.8		
	Neodymium	nr		
	Nickel	<20		
	Potassium (%)	nr		
	Rubidium	260		
	Samarium	3.93		
	Scandium	17.2		
	Selenium	<5		
	Silver	8.24		
	Sodium (%)	2.45		
	Strontium	nr		
	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		

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