

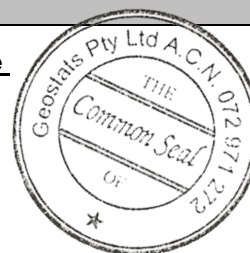
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM910-7

Certified Control Values



GBM910-7

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

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	117	12	151	+/- 2
Copper (ppm)	5335	233	176	+/- 34.8
Zinc (ppm)	1249	73	178	+/- 10.8
Lead (ppm)	592	35	163	+/- 5.5
Arsenic (ppm)	80	9	139	+/- 1.6
Cobalt (ppm)	86	10	150	+/- 1.6
Silver (ppm)	7.1	0.7	164	+/- 0.11

CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the October-2010 & October-2011 round robins. 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 a Cu supergene material.	Antimony	6.345	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is medium light gray in colour.	Arsenic	81.75	SiO ₂	58.7
<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	338.5	Al ₂ O ₃	13.57
<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	0.801	TiO ₂	1.207
<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	0.135
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Caesium	2.125	CaO	5.885
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	nr	P	0.064
	Cerium	43.95	S	0.932
	Chromium	89.6	MgO	3.165
	Cobalt	95.75	K ₂ O	1.85
	Europium	1.3	Na ₂ O	3.122
	Gold (ppb)	2800	LOI1000	0.875
	Hafnium	9.765		
	Iridium (ppb)	<20	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%)	7.115	'nr': Not Reported	
	Lanthanum	22.15		
	Lutetium	0.462		
	Mercury	nr		
	Molybdenum	47.6		
	Neodymium	nr		
	Nickel	126		
	Potassium (%)	nr		
	Rubidium	83.85		
	Samarium	4.85		
	Scandium	20.7		
	Selenium	<5		
	Silver	6.5		
	Sodium (%)	2.36		
	Strontium	nr		
	Tantalum	1.285		
	Tellurium	<10		
	Terbium	0.806		
	Thorium	11.7		
	Tin	<100		
	Tungsten	2.64		
	Uranium	6.46		
	Ytterbium	3.025		
	Zinc	1280		
	Zirconium	<500		

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