

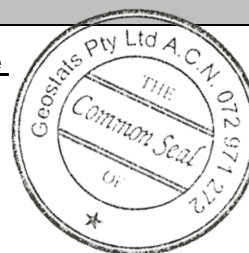
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM910-6

Certified Control Values



GBM910-6

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

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	44	7	75	+/- 1.7
Copper (ppm)	10084	309	87	+/- 66.2
Zinc (ppm)	907	64	86	+/- 13.8
Lead (ppm)	173	14	86	+/- 3
Arsenic (ppm)	117	12	72	+/- 2.8
Cobalt (ppm)	131	13	75	+/- 3
Silver (ppm)	3.6	0.4	77	+/- 0.1

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 a Copper Ore sulphide.	Antimony	2.39	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is medium light gray in colour.	Arsenic	124	SiO ₂	59.4
<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	350	Al ₂ O ₃	13.45
<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	0.958	TiO ₂	1.184
<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	0.11
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Caesium	1.89	CaO	5.85
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	nr	P	0.062
	Cerium	36.4	S	1.58
	Chromium	98.8	MgO	3.06
	Cobalt	139	K ₂ O	1.87
	Europium	1.43	Na ₂ O	3.038
	Gold (ppb)	5630	LOI1000	1.13
	Hafnium	3.32		
	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 (%)	6.51	'nr': Not Reported	
	Lanthanum	22.2		
	Lutetium	0.418		
	Mercury	nr		
	Molybdenum	14.7		
	Neodymium	nr		
	Nickel	52.5		
	Potassium (%)	nr		
	Rubidium	83.4		
	Samarium	4.69		
	Scandium	19.7		
	Selenium	<5		
	Silver	3		
	Sodium (%)	2.25		
	Strontium	nr		
	Tantalum	1.02		
	Tellurium	<20		
	Terbium	0.77		
	Thorium	13		
	Tin	<100		
	Tungsten	1.86		
	Uranium	6.98		
	Ytterbium	2.8		
	Zinc	904		
	Zirconium	<500		

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