

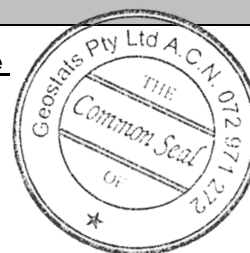
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM310-8

Certified Control Values



GBM310-8

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

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	28	3	59	+/- 0.9
Copper (ppm)	396	20	77	+/- 4.6
Zinc (ppm)	27	5	70	+/- 1.3
Lead (ppm)	29	3	50	+/- 0.8
Arsenic (ppm)	85	6	56	+/- 1.7
Cobalt (ppm)	50	4	65	+/- 0.9
Silver (ppm)	0.5	0.3	34	+/- 0.11

CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the April-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 gold ore.	Antimony	0.665	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is very light gray in colour.	Arsenic	82.7	SiO ₂	nr
<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	97	Al ₂ O ₃	nr
<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	0.9	TiO ₂	nr
<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	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Caesium	<1	CaO	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	nr	P	nr
	Cerium	67.1	S	nr
	Chromium	56	MgO	nr
	Cobalt	52	K ₂ O	nr
	Europium	0.862	Na ₂ O	nr
	Gold (ppb)	366	LOI1000	nr
	Hafnium	10.7		
	Iridium (ppb)	<5		
	Iron (%)	1.64		
	Lanthanum	36		
	Lutetium	0.397		
	Mercury	nr		
	Molybdenum	2		
	Neodymium	nr		
	Nickel	<100		
	Potassium (%)	nr		
	Rubidium	29		
	Samarium	5.03		
	Scandium	7.19		
	Selenium	<1.1		
	Silver	<1		
	Sodium (%)	2.32		
	Strontium	nr		
	Tantalum	0.911		
	Tellurium	<2.2		
	Terbium	0.58		
	Thorium	13.1		
	Tin	<100		
	Tungsten	15		
	Uranium	2.8		
	Ytterbium	2.41		
	Zinc	29		
	Zirconium	<500		

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