

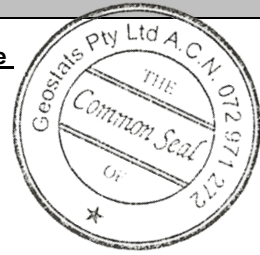
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM308-15

Certified Control Values



GBM308-15

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

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	23962	1219	103	+/- 239
Copper (ppm)	15452	493	126	+/- 87
Zinc (ppm)	118	nr	nr	nr
Lead (ppm)	64	nr	nr	nr
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	4.2	1.2	79	+/- 0.28
Sulphur (%)	23.88	1.16	85	+/- 0.25

CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the April-2008 & October-2009 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 Nickel ore ex Pilbara.	Antimony	0.4	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is dark gray in colour.	Arsenic	28.5	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	88	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	<0.5	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	0.6	CaO	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	nr	P	nr
	Cerium	<5	S	nr
	Chromium	210	MgO	nr
	Cobalt	1290	K ₂ O	nr
	Europium	<0.5	Na ₂ O	nr
	Gold (ppb)	1027	LOI1000	nr
	Hafnium	<1		
	Iridium (ppb)	150	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%)	38.65	'nr': Not Reported	
	Lanthanum	6.5		
	Lutetium	0.16		
	Mercury	nr		
	Molybdenum	<1		
	Neodymium	nr		
	Nickel	24650		
	Potassium (%)	nr		
	Rubidium	14		
	Samarium	1.35		
	Scandium	9.7		
	Selenium	13.5		
	Silver	3.5		
	Sodium (%)	0.385		
	Strontium	nr		
	Tantalum	0.2		
	Tellurium	<10		
	Terbium	<0.5		
	Thorium	0.7		
	Tin	<50		
	Tungsten	4		
	Uranium	<0.2		
	Ytterbium	<0.5		
	Zinc	20		
	Zirconium	<200		

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