

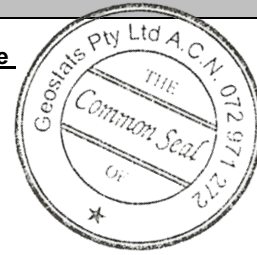
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM914-15

Certified Control Values



GBM914-15

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

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	15093	630	98	+/- 127
Copper (ppm)	60	nr	nr	nr
Zinc (ppm)	354	nr	nr	nr
Lead (ppm)	44	nr	nr	nr
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	0.6	0.3	32	+/- 0.12
Sulphur (%)	0.06	0.01	88	+/- 0

CRM Details

<u>Control Statistic Details</u>	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>		<u>Major Elements by Fusion / XRF (%)</u>	
	Control statistics were produced from results accumulated in the October-2014 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	0.3	Fe
<u>Material Description</u> This material is described as a Nickel laterite.	Arsenic	<1	SiO ₂	20.24
	Barium	<50	Al ₂ O ₃	7.71
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is light brown in colour.	Bromine	2.4	TiO ₂	0.09
	Cadmium	<5	MnO	0.31
<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.	Caesium	<0.5	CaO	0.05
	Calcium (%)	nr	P	0.006
<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.	Cerium	<10	S	0.07
	Chromium	20800	MgO	5.33
<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.	Cobalt	590	K ₂ O	0.001
	Europium	<0.378	Na ₂ O	<0.01
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	<3.32	LOI1000	11
	Hafnium	<1	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
<u>Material Safety</u> This product is not hazardous and non-toxic.	Iridium (ppb)	<50	'nr': Not Reported	
	Iron (%)	36.3		
	Lanthanum	0.563		
	Lutetium	<0.2		
	Mercury	nr		
	Molybdenum	<1.15		
	Neodymium	nr		
	Nickel	15760		
	Potassium (%)	nr		
	Rubidium	<10		
	Samarium	0.228		
	Scandium	56		
	Selenium	<10		
	Silver	<1		
	Sodium (%)	0.042		
	Strontium	nr		
	Tantalum	<0.5		
	Tellurium	nr		
	Terbium	<0.5		
	Thorium	<0.5		
	Tin	nr		
	Tungsten	<1.96		
	Uranium	<0.5		
	Ytterbium	<2		
	Zinc	350		
	Zirconium	nr		

20 Hines Road, O'Connor, Western Australia 6163

Phone : +61 8 9314 2566, Fax : +61 8 9314 3699

e-mail : pjh@geostats.com.au, srr@geostats.com.au

Website <http://www.geostats.com.au>