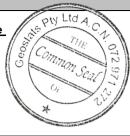
## **GEOSTATS PTY LTD**

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

## GBM312-16

## **Certified Control Values**



Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval	
Nickel (ppm)	27907	1161	161	+/- 181	
Copper (ppm)	3092	155	219	+/- 21	
Zinc (ppm)	141	nr	nr	nr	
Lead (ppm)	49	nr	nr	nr	
Cobalt (ppm)	nr	nr	nr	nr	
Silver (ppm)	1.8	0.5	151	+/- 0.08	
Sulphur (%)	9.78	0.32	149	+/- 0.05	

## **CRM Details**

Out and Out that a Paralla	Neutron Activation Analysis Results (ppm,		Major Elements by Fusion / XRF (%)	
Control Statistic Details				
Control statistics were produced from results accumulated in the April-2012 &	unless otherwi		_	
October-2012 round robins. The number of results used to certify each analyte is	Antimony	0.5	Fe	15.94
shown in the table above.	Arsenic	93.75	SiO <sub>2</sub>	29.57
	Barium	100	Al <sub>2</sub> O <sub>3</sub>	2.9
Material Description	Bromine	1.65	TiO <sub>2</sub>	0.133
This material is described as a Ni Ore ex Eastern Goldfields.	Cadmium	<5	MnO	0.13
	Caesium	<0.5	CaO	5.88
	Calcium (%)	nr	Р	0.01
Colour Designation (ISCC-NBS, SP440)	Cerium	5	S	9.69
This material is medium dark gray in colour.	Chromium	942.5	MgO	14.6
	Cobalt	674.5	K <sub>2</sub> O	0.263
<u>Usage</u>	Europium	0.2	Na <sub>2</sub> O	0.438
This product is for use in the mining industry as a reference material for	Gold (ppb)	110	LOI1000	12.3
monitoring and testing the accuracy of laboratory assaying.	Hafnium	0.6		
	Iridium (ppb)	42.5	Neutron Act	ivation
Preparation and Packaging	Iron (%)	16.55	Analyses and Fusion /	
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry	Lanthanum	2	XRF Analyses are	
material is then pulverised to better than 75 micron (nominal mean of 45 micron)	Lutetium	0.1	single results and are	
using an air classifier. The material is then homogenised and stored in a sealed,	Mercury	nr	indicative only. These	
stable container ready for final packaging.	Molybdenum	<5	are provided for matrix	
	Neodymium	nr	identification	n
Materials are statistically sampled from stores, then packaged into either heat	Nickel	29250	purposes.	
sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready	Potassium (%)	nr		
for distribution. All packaging has been chosen to ensure minimal contamination	Rubidium	<10	'nr': Not Rep	orted
from outside sources during shipment, use and storage.	Samarium	0.6		
	Scandium	8.45		
Assay Testwork	Selenium	12.5		
All standards are tested thoroughly in the Geostats bi-annual laboratory survey.	Silver	2		
This involves assaying by multiple laboratories from around the world. Results are	Sodium (%)	0.294		
compiled into a comprehensive report detailing statistics for each standard. Assay	Strontium	nr		
distributions are checked and processed statistically, producing monitoring	Tantalum	0.1		
statistics for these standards. Materials are tested regularly to ensure stability and	Tellurium	<10		
homogeneity.	Terbium	<0.5		
Tiomogonoxy.	Thorium	<0.5		
Stability	Tin	<100		
This product remains stable in its original packaging, away from direct sunlight.	Tungsten	<2		
This product remains stable in its original packaging, away from direct surlingit.	Uranium	<0.2		
Material Safety	Ytterbium	<0.5		
This product is not hazardous and non-toxic.	Zinc	87		
This product is not hazardous and non-toxic.	Zirconium	<200		
	ZIICONIUM	<200		

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