## **GEOSTATS PTY LTD**

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

## **GBM907-11**

## Certified Control Values



Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval	
Nickel (ppm)	45163	2252	154	+/- 360	
Copper (ppm)	3873	178	180	+/- 26	
Zinc (ppm)	1033	nr	nr	nr	
Lead (ppm)	191	nr	nr	nr	
Cobalt (ppm)	nr	nr	nr	nr	
Silver (ppm)	4.7	0.6	95	+/- 0.13	
Sulphur (%)	7.56	0.32	134	+/- 0.05	

## **CRM Details**

	Neutron Activation		Major Elements by	
Control Statistic Details	Analysis Results (ppm,		Fusion / XRF (%)	
Control statistics were produced from results accumulated in the October-2007 &	unless otherwi			` '
April-2015 round robins. The number of results used to certify each analyte is	Antimony	2.6	Fe	14.615
shown in the table above.	Arsenic	149	SiO <sub>2</sub>	39.93
	Barium	59	Al <sub>2</sub> O <sub>3</sub>	10.98
Material Description	Bromine	0.608	TiO <sub>2</sub>	1.52
This material is described as a Nickel Sulphide Ore.	Cadmium	9	MnO	0.12
	Caesium	0.8	CaO	7.21
	Calcium (%)	nr	Р	0.074
Colour Designation (ISCC-NBS, SP440)	Cerium	20	S	7.249
This material is medium dark gray in colour.	Chromium	170	MgO	4.49
	Cobalt	662	K <sub>2</sub> O	0.347
<u>Usage</u>	Europium	1.7	Na <sub>2</sub> O	2.22
This product is for use in the mining industry as a reference material for	Gold (ppb)	140	LOI1000	5.67
monitoring and testing the accuracy of laboratory assaying.	Hafnium	3		
	Iridium (ppb)	50	Neutron Act	
Preparation and Packaging	Iron (%)	14.1	Analyses and Fusion /	
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry	Lanthanum	10	XRF Analyses are	
material is then pulverised to better than 75 micron (nominal mean of 45 micron)	Lutetium	0.45	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	4	are provided for matrix	
	Neodymium	nr	identification	า
Materials are statistically sampled from stores, then packaged into either heat	Nickel	45500	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	9.5	'nr': Not Rep	oorted
from outside sources during shipment, use and storage.	Samarium	3.95		
	Scandium	25.95		
Assay Testwork	Selenium	7		
All standards are tested thoroughly in the Geostats bi-annual laboratory survey.	Silver	4		
This involves assaying by multiple laboratories from around the world. Results are	Sodium (%)	1.52		
compiled into a comprehensive report detailing statistics for each standard. Assay	Strontium	nr		
distributions are checked and processed statistically, producing monitoring	Tantalum	0.4		
statistics for these standards. Materials are tested regularly to ensure stability and	Tellurium	<10		
homogeneity.	Terbium	0.85		
Otal Wes	Thorium	1.95		
Stability	Tin	<100		
This product remains stable in its original packaging, away from direct sunlight.	Tungsten	<2		
Markenial Cafety	Uranium	0.85		
Material Safety	Ytterbium	3		
This product is not hazardous and non-toxic.	Zinc	1035		
	Zirconium	<200	]	

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