## **GEOSTATS PTY LTD**

Mining Industry Consultants
Reference Material Manufacture and Sales

**Certified Geochem Base Metal Reference Material Product Code** 

## **GBM906-2**

## **Certified Control Values**



Major Elements by

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	1068	65	98	+/- 13.1
Copper (ppm)	569	29	122	+/- 5.2
Zinc (ppm)	74	19	125	+/- 3.4
Lead (ppm)	31	5	113	+/- 1
Arsenic (ppm)	11	3	72	+/- 0.8
Cobalt (ppm)	20	8	101	+/- 1.5
Silver (ppm)	10.5	1.0	112	+/- 0.2

## **CRM Details**

**Neutron Activation** 

Control Statistic Details	Analysis Results (ppm,		Fusion / XRF (%)	
Control statistics were produced from results accumulated in the October-2006 &	unless otherwise noted)			( /
April-2008 round robins. The number of results used to certify each analyte is	Antimony	0.366	Fe	nr
shown in the table above.	Arsenic	10.9	SiO <sub>2</sub>	nr
	Barium	161.5	Al <sub>2</sub> O <sub>3</sub>	nr
Material Description	Bromine	0.137	TiO <sub>2</sub>	nr
This material is described as a Nickel waste ore.	Cadmium	<5	MnO	nr
	Caesium	50.25	CaO	nr
	Calcium (%)	nr	Р	nr
Colour Designation (ISCC-NBS, SP440)	Cerium	15.95	S	nr
This material is light gray in colour.	Chromium	116	MgO	nr
	Cobalt	28.7	K <sub>2</sub> O	nr
Usage	Europium	1.19	Na <sub>2</sub> O	nr
This product is for use in the mining industry as a reference material for	Gold (ppb)	954	LOI1000	nr
monitoring and testing the accuracy of laboratory assaying.	Hafnium	1.91		
	Iridium (ppb)	12.6	Neutron Act	ivation
Preparation and Packaging	Iron (%)	4.945	Analyses ar	nd Fusion /
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry	Lanthanum	6.935	XRF Analyses are	
material is then pulverised to better than 75 micron (nominal mean of 45 micron)	Lutetium	0.214	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	49.25	are provided for matrix	
	Neodymium	nr	identification	า
Materials are statistically sampled from stores, then packaged into either heat	Nickel	1090	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	1435	'nr': Not Rep	orted
from outside sources during shipment, use and storage.	Samarium	3.055		
	Scandium	18.15		
Assay Testwork	Selenium	<5		
All standards are tested thoroughly in the Geostats bi-annual laboratory survey.	Silver	8.615		
This involves assaying by multiple laboratories from around the world. Results are	Sodium (%)	1.995		
compiled into a comprehensive report detailing statistics for each standard. Assay	Strontium	nr		
distributions are checked and processed statistically, producing monitoring	Tantalum	4.545		
statistics for these standards. Materials are tested regularly to ensure stability and	Tellurium	<10		
homogeneity.	Terbium	0.602		
	Thorium	0.895		
<u>Stability</u>	Tin	<100		
This product remains stable in its original packaging, away from direct sunlight.	Tungsten	0.806		
L	Uranium	0.463		
Material Safety	Ytterbium	1.54		
This product is not hazardous and non-toxic.	Zinc	94.5		
	Zirconium	<200		

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