# **GEOSTATS PTY LTD**

**Mining Industry Consultants** 

**Reference Material Manufacture and Sales** 

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

# **GBM301-1**



Geost

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**GBM301-1** 

## Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	26560	1410	119	+/- 257.1
Copper (ppm)	561	39	148	+/- 6.4
Zinc (ppm)	236	33	137	+/- 5.6
Lead (ppm)	368	37	135	+/- 6.3
Arsenic (ppm)	56	11	97	+/- 2.2
Cobalt (ppm)	50	9	115	+/- 1.6
Silver (ppm)	1.2	0.6	97	+/- 0.1

### **CRM Details**

	Neutron Activation		Major Elements by	
Control Statistic Details	Analysis Results (ppm,		Fusion / XRF (%)	
Control statistics were produced from results accumulated in the April-1999 &	unless otherwi	se noted)		
April-2001 round robins. The number of results used to certify each analyte is	Antimony	1.06	Fe	nr
shown in the table above.	Arsenic	60.25	SiO <sub>2</sub>	nr
	Barium	<100	Al <sub>2</sub> O <sub>3</sub>	nr
Material Description	Bromine	<2	TiO2	nr
This material is described as a Nickel Sulphide Ore ex. S.West Mineral field.	Cadmium	nr	MnO	nr
	Caesium	6.29	CaO	nr
	Calcium (%)	3.675	Р	nr
Colour Designation (ISCC-NBS, SP440)	Cerium	15.2	S	nr
This material is medium dark gray in colour.	Chromium	664	MgO	nr
	Cobalt	50.25	K <sub>2</sub> O	nr
Usage	Europium	0.69	Na2O	nr
This product is for use in the mining industry as a reference material for	Gold (ppb)	1380	LOI1000	nr
monitoring and testing the accuracy of laboratory assaying.	Hafnium	1.635		
	Iridium (ppb)	<20	Neutron Act	ivation
Preparation and Packaging	Iron (%)	17.65	Analyses ar	nd Fusion /
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry	Lanthanum	6.275	XRF Analys	es are
material is then pulverised to better than 75 micron (nominal mean of 45 micron)	Lutetium	<0.2	single results and are	
using an air classifier. The material is then homogenised and stored in a sealed,	Mercury	nr	nr indicative only. These	
stable container ready for final packaging.	Molybdenum	7.7	are provided for matrix	
	Neodymium	nr	identification	n
Materials are statistically sampled from stores, then packaged into either heat	Nickel	nr	purposes.	
sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready	Potassium (%)	<0.2		
for distribution. All packaging has been chosen to ensure minimal contamination	Rubidium	<30	'nr': Not Rep	ported
from outside sources during shipment, use and storage.	Samarium	1.79		
	Scandium	9.775		
Assay Testwork	Selenium	<5		
All standards are tested thoroughly in the Geostats bi-annual laboratory survey.	Silver	<5		
This involves assaying by multiple laboratories from around the world. Results are	Sodium (%)	0.249		
compiled into a comprehensive report detailing statistics for each standard. Assay	Strontium	nr		
distributions are checked and processed statistically, producing monitoring	Tantalum	<1		
statistics for these standards. Materials are tested regularly to ensure stability and	Tellurium	<5		
homogeneity.	Terbium	nr		
	Thorium	0.935		
<u>Stability</u>	Tin	nr		
This product remains stable in its original packaging, away from direct sunlight.	Tungsten	<3		
	Uranium	<2		
Material Safety	Ytterbium	0.815		
This product is not hazardous and non-toxic.	Zinc	270.5		
	Zirconium	<500		
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