'Common Seal

## **GEOSTATS PTY LTD**

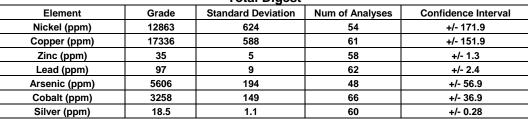
Mining Industry Consultants
Reference Material Manufacture and Sales

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

## **GBM318-8**

## Certified Control Values

**Total Digest** 



**Partial Digest** 

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	12967	626	47	+/- 185.9
Copper (ppm)	17315	556	74	+/- 129.8
Zinc (ppm)	35	11	65	+/- 2.7
Lead (ppm)	90	12	66	+/- 3.1
Arsenic (ppm)	5421	340	58	+/- 90.3
Cobalt (ppm)	3202	213	57	+/- 57
Silver (ppm)	18.0	1.3	77	+/- 0.3

## **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-2018	unless otherwise noted)			
round robin. The number of results used to certify each analyte is shown in the	Antimony	32.1	Fe	21.119
table above.	Arsenic	5600	SiO <sub>2</sub>	10.82
	Barium	537	Al <sub>2</sub> O <sub>3</sub>	29.8
Material Description	Bromine	5	TiO <sub>2</sub>	1.41
This material is described as a Blend of nickel filtercake and coffee rock.	Cadmium	<37	MnO	0.1
	Caesium	<2	CaO	0.13
	Calcium (%)	nr	Р	0.02
Colour Designation (ISCC-NBS, SP440)	Cerium	20	S	2.143
This material is moderate brown in colour.	Chromium	121	MgO	0.11
	Cobalt	3500	K <sub>2</sub> O	0.13
<u>Usage</u>	Europium	<0.5	Na <sub>2</sub> O	0.04
This product is for use in the mining industry as a reference material for	Gold (ppb)	1150	LOI1000	22.77
monitoring and testing the accuracy of laboratory assaying.	Hafnium	9		
	Iridium (ppb)	659	Neutron Act	ivation
Preparation and Packaging	Iron (%)	20.8	Analyses and Fusion /	
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry	Lanthanum	4	XRF Analyses 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	ŭ	
stable container ready for final packaging.	Molybdenum	<10	indicative only. These	
	Neodymium	nr	are provided	for matrix
Materials are statistically sampled from stores, then packaged into either heat	Nickel	12900	identification	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	<60	'nr': Not Rep	orted
from outside sources during shipment, use and storage.	Samarium	0.6		
	Scandium	13.1		
Assay Testwork	Selenium	78		
All standards are tested thoroughly in the Geostats bi-annual laboratory survey.	Silver	16		
This involves assaying by multiple laboratories from around the world. Results	Sodium (%)	0.03		
are compiled into a comprehensive report detailing statistics for each standard.	Strontium	nr		
Assay distributions are checked and processed statistically, producing	Tantalum	4		
monitoring statistics for these standards. Materials are tested regularly to ensure	Tellurium	67.7		
stability and homogeneity.	Terbium	<2		
	Thorium	74.8		
<u>Stability</u>	Tin	<300		
This product remains stable in its original packaging, away from direct sunlight.	Tungsten	<5		
	Uranium	6		
Material Safety	Ytterbium	<0.5		
This product is not hazardous and non-toxic.	Zinc	<200		
	Zirconium	<500		

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