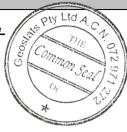
## **GEOSTATS PTY LTD**

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

## **GBM314-11**

## **Certified Control Values**



Major Elements by

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval	
Nickel (ppm)	63	nr	nr	nr	
Copper (ppm)	34499	1222	130	+/- 213	
Zinc (ppm)	15367	552	118	+/- 101	
Lead (ppm)	4745	194	117	+/- 36	
Cobalt (ppm)	nr	nr	nr	nr	
Silver (ppm)	51.6	3.4	118	+/- 0.62	
Sulphur (%)	4.90	0.19	104	+/- 0.04	

## **CRM Details**

**Neutron Activation** 

Control Statistic Patrile	Analysis Besylte (num		Fuelon (VDF (%)	
Control Statistic Details			Fusion / XRF (%)	
Control statistics were produced from results accumulated in the April-2014 round	unless otherwi		-	
robin. The number of results used to certify each analyte is shown in the table	Antimony	68.2	Fe	11.06
above.	Arsenic	320	SiO <sub>2</sub>	44.16
L	Barium	<50	Al <sub>2</sub> O <sub>3</sub>	12.13
Material Description	Bromine	<0.5	TiO <sub>2</sub>	1.71
This material is described as a Composite Base Metal Silver.	Cadmium	46.9	MnO	0.2
	Caesium	0.9	CaO	7.97
	Calcium (%)	nr	Р	0.086
Colour Designation (ISCC-NBS, SP440)	Cerium	<36	S	5.09
This material is dark gray in colour.	Chromium	100	MgO	4.79
	Cobalt	152	K <sub>2</sub> O	0.415
<u>Usage</u>	Europium	4	Na <sub>2</sub> O	2.84
This product is for use in the mining industry as a reference material for	Gold (ppb)	21200	LOI1000	2.62
monitoring and testing the accuracy of laboratory assaying.	Hafnium	4		
	Iridium (ppb)	<50	Neutron Act	ivation
Preparation and Packaging	Iron (%)	11.4	Analyses ar	nd Fusion /
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry	Lanthanum	19	XRF Analyses are	
material is then pulverised to better than 75 micron (nominal mean of 45 micron)	Lutetium	0.4	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	158	are provided for matrix	
	Neodymium	nr	identification	n
Materials are statistically sampled from stores, then packaged into either heat	Nickel	80	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	20	'nr': Not Rep	orted
from outside sources during shipment, use and storage.	Samarium	5.8		
	Scandium	29.2		
Assay Testwork	Selenium	26.8		
All standards are tested thoroughly in the Geostats bi-annual laboratory survey.	Silver	59		
This involves assaying by multiple laboratories from around the world. Results are	Sodium (%)	1.81		
compiled into a comprehensive report detailing statistics for each standard. Assay	Strontium	nr		
distributions are checked and processed statistically, producing monitoring	Tantalum	<0.5		
statistics for these standards. Materials are tested regularly to ensure stability and	Tellurium	nr		
homogeneity.	Terbium	0.8		
in the state of th	Thorium	1.5		
Stability	Tin	nr		
This product remains stable in its original packaging, away from direct sunlight.	Tungsten	57		
This product formaling stable in its original pastaging, away from allost suring it.	Uranium	1.8		
Material Safety	Ytterbium	5		
This product is not hazardous and non-toxic.	Zinc	15700		
This product is not hazardous and non-toxic.	Zirconium	nr		
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