

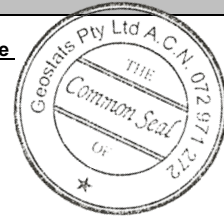
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM914-9

Certified Control Values



GBM914-9

### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	58	4	71	+/- 0.9
Copper (ppm)	952	38	81	+/- 8.4
Zinc (ppm)	70	6	74	+/- 1.3
Lead (ppm)	10	3	61	+/- 0.8
Arsenic (ppm)	10	3	61	+/- 0.7
Cobalt (ppm)	15	1	64	+/- 0.2
Silver (ppm)	0.8	0.2	55	nr

### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	53	2	44	+/- 0.7
Copper (ppm)	950	49	77	+/- 11.1
Zinc (ppm)	64	5	59	+/- 1.3
Lead (ppm)	7	3	47	+/- 0.9
Arsenic (ppm)	10	3	51	+/- 0.8
Cobalt (ppm)	14	1	45	+/- 0.4
Silver (ppm)	0.7	0.2	56	+/- 0.05

### CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Major Elements by Fusion / XRF (%)		
		Control statistics were produced from results accumulated in the October-2014 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	2.4
<b>Material Description</b> This material is described as a Low copper sulphide - This material also certified for partial digests.	Arsenic	10	SiO <sub>2</sub>	63.41
<b>Colour Designation (ISCC-NBS, SP440)</b> This material is light gray in colour.	Barium	180	Al <sub>2</sub> O <sub>3</sub>	15.89
<b>Usage</b> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Bromine	1.3	TiO <sub>2</sub>	0.67
<b>Preparation and Packaging</b> All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry material is then pulverised to better than 75 micron (nominal mean of 45 micron) using an air classifier. The material is then homogenised and stored in a sealed, stable container ready for final packaging.  Materials are statistically sampled from stores, then packaged into either heat sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.	Cadmium	<5	MnO	0.06
<b>Assay Testwork</b> All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by multiple laboratories from around the world. Results are compiled into a comprehensive report detailing statistics for each standard. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.	Caesium	3.92	CaO	4.57
<b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.	Calcium (%)	nr	P	0.069
<b>Material Safety</b> This product is not hazardous and non-toxic.	Cerium	36.6	S	0.24
	Chromium	100	MgO	3.23
	Cobalt	15	K <sub>2</sub> O	1.33
	Europium	0.953	Na <sub>2</sub> O	3.79
	Gold (ppb)	558	LOI1000	1.72
	Hafnium	3	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iridium (ppb)	<50	'nr': Not Reported	
	Iron (%)	4		
	Lanthanum	17.8		
	Lutetium	<0.2		
	Mercury	nr		
	Molybdenum	26.8		
	Neodymium	nr		
	Nickel	62		
	Potassium (%)	nr		
	Rubidium	80		
	Samarium	3.54		
	Scandium	10.9		
	Selenium	<10		
	Silver	<1		
	Sodium (%)	2.65		
	Strontium	nr		
	Tantalum	0.6		
	Tellurium	nr		
	Terbium	0.5		
	Thorium	7.3		
	Tin	nr		
	Tungsten	15.6		
	Uranium	2.3		
	Ytterbium	<2		
	Zinc	73		
	Zirconium	nr		

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Geostats Pty Ltd, Certified Geochem Base Metal Reference Material, Product Code: