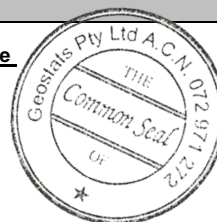


# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM920-7



### Certified Control Values

#### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	79	5	53	+/- 1.4
Copper (ppm)	29848	925	52	+/- 260.1
Zinc (ppm)	41046	1188	46	+/- 356.8
Lead (ppm)	30808	916	47	+/- 271.7
Arsenic (ppm)	586	24	51	+/- 6.9
Cobalt (ppm)	89	6	60	+/- 1.6
Silver (ppm)	133.9	8.9	48	+/- 2.61

#### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	69	6	56	+/- 1.6
Copper (ppm)	30009	742	57	+/- 198.7
Zinc (ppm)	40609	1507	42	+/- 475.3
Lead (ppm)	30928	1423	46	+/- 427.4
Arsenic (ppm)	588	24	55	+/- 6.6
Cobalt (ppm)	73	8	58	+/- 2
Silver (ppm)	133.6	9.8	61	+/- 2.52

### 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-2020 round robin. The number of results used to certify each analyte is shown in the table above.		Antimony	332	Fe	9.07
		Arsenic	628	SiO <sub>2</sub>	44.71
		Barium	246	Al <sub>2</sub> O <sub>3</sub>	11.09
		Bromine	<2	TiO <sub>2</sub>	1.01
		Cadmium	96	MnO	0.15
		Caesium	2	CaO	5.14
		Calcium (%)	nr	P	0.053
		Cerium	30	S	6.89
		Chromium	123	MgO	3.04
		Cobalt	96	K <sub>2</sub> O	1.22
		Europium	0.8	Na <sub>2</sub> O	2.54
		Gold (ppb)	8590	LOI1000	5.43
		Hafnium	<5	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.  'nr': Not Reported	
		Iridium (ppb)	<50		
		Iron (%)	9.4		
		Lanthanum	18		
		Lutetium	0.3		
		Mercury	nr		
		Molybdenum	58		
		Neodymium	nr		
		Nickel	87		
		Potassium (%)	nr		
		Rubidium	61		
		Samarium	3.6		
		Scandium	16.9		
		Selenium	22.3		
		Silver	140		
		Sodium (%)	1.77		
		Strontium	nr		
		Tantalum	<2		
		Tellurium	<20		
		Terbium	<1		
		Thorium	7		
		Tin	<200		
		Tungsten	13		
		Uranium	3		
		Ytterbium	2		
		Zinc	42500		
		Zirconium	<500		
<b>Material Description</b> This material is described as a Cu Pb Zn Ore.					
<b>Colour Designation (ISCC-NBS, SP440)</b> This material is medium dark gray in colour.					
<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.					
<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.					
<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.					
<b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.					
<b>Material Safety</b> This product is not hazardous and non-toxic.					

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GBM920-7

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