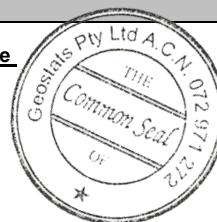


# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM920-8



### Certified Control Values

#### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	117	5	55	+/- 1.5
Copper (ppm)	1685	53	62	+/- 13.5
Zinc (ppm)	92542	3073	46	+/- 922.8
Lead (ppm)	41874	1291	47	+/- 383.2
Arsenic (ppm)	1450	45	49	+/- 13.1
Cobalt (ppm)	49	3	58	+/- 0.9
Silver (ppm)	41.9	1.5	54	+/- 0.41

#### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	114	9	57	+/- 2.3
Copper (ppm)	1720	81	76	+/- 18.7
Zinc (ppm)	92467	4936	44	+/- 1518.2
Lead (ppm)	41511	1595	39	+/- 523.7
Arsenic (ppm)	1450	77	59	+/- 20.4
Cobalt (ppm)	47	3	54	+/- 0.9
Silver (ppm)	41.4	2.8	73	+/- 0.67

### 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	70.8	Fe	nr
	Arsenic	1500	SiO <sub>2</sub>	nr
	Barium	169	Al <sub>2</sub> O <sub>3</sub>	nr
	Bromine	4	TiO <sub>2</sub>	nr
	Cadmium	247	MnO	nr
	Caesium	7	CaO	nr
	Calcium (%)	nr	P	nr
	Cerium	35	S	nr
	Chromium	50	MgO	nr
	Cobalt	54	K <sub>2</sub> O	nr
	Europium	0.6	Na <sub>2</sub> O	nr
	Gold (ppb)	46	LOH1000	nr
	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 (%)	10.4		
	Lanthanum	18		
	Lutetium	0.2		
	Mercury	nr		
	Molybdenum	<10		
	Neodymium	nr		
	Nickel	127		
	Potassium (%)	nr		
	Rubidium	81		
	Samarium	2.8		
	Scandium	6.4		
	Selenium	<10		
	Silver	43		
	Sodium (%)	0.145		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	<1		
	Thorium	6.8		
	Tin	<200		
	Tungsten	<2		
	Uranium	2		
	Ytterbium	1.4		
	Zinc	93500		
	Zirconium	<500		

**Material Description**  
This material is described as a Pb Zn Ore.

**Colour Designation (ISCC-NBS, SP440)**  
This material is medium dark gray in colour.

**Usage**  
This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.

**Preparation and Packaging**  
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.

**Assay Testwork**  
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.

**Stability**  
This product remains stable in its original packaging, away from direct sunlight.

**Material Safety**  
This product is not hazardous and non-toxic.

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GBM920-8

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