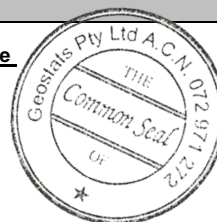


GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM919-1



Certified Control Values

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	19	2	52	+/- 0.6
Copper (ppm)	3723	95	59	+/- 25
Zinc (ppm)	132	7	56	+/- 1.8
Lead (ppm)	12	2	49	+/- 0.6
Arsenic (ppm)	2	nr	nr	nr
Cobalt (ppm)	29	2	56	+/- 0.5
Silver (ppm)	2.3	0.2	51	+/- 0.06

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	18	2	51	+/- 0.5
Copper (ppm)	3737	140	75	+/- 32.4
Zinc (ppm)	131	6	60	+/- 1.4
Lead (ppm)	9	1	37	+/- 0.4
Arsenic (ppm)	2	nr	nr	nr
Cobalt (ppm)	29	2	55	+/- 0.7
Silver (ppm)	2.2	0.2	57	+/- 0.06

CRM Details

<u>Control Statistic Details</u>		<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>		<u>Major Elements by Fusion / XRF (%)</u>			
Control statistics were produced from results accumulated in the October-2019 round robin. The number of results used to certify each analyte is shown in the table above.		Antimony	<0.2	Fe	3.68		
		Arsenic	1.4	SiO ₂	70.46		
		Barium	628	Al ₂ O ₃	13.68		
		Bromine	3	TiO ₂	0.28		
		Cadmium	<10	MnO	0.14		
		Caesium	<2	CaO	1.63		
		Calcium (%)	nr	P	0.032		
		Cerium	52	S	0.66		
		Chromium	<20	MgO	0.79		
		Cobalt	30	K ₂ O	2.27		
		Europium	0.6	Na ₂ O	4.14		
		Gold (ppb)	30	LOI1000	1.12		
		Hafnium	<5	<div>Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.</div> <div>'nr': Not Reported</div>			
		Iridium (ppb)	<50				
		Iron (%)	3.6				
		Lanthanum	32				
		Lutetium	<0.2				
		Mercury	nr				
		Molybdenum	112				
		Neodymium	nr				
		Nickel	<20				
		Potassium (%)	nr				
		Rubidium	69				
		Samarium	2.6				
		Scandium	4.1				
		Selenium	<10				
		Silver	<5				
		Sodium (%)	2.97				
		Strontium	nr				
		Tantalum	<2				
		Tellurium	<20				
		Terbium	<1				
		Thorium	9.6				
		Tin	<200				
		Tungsten	7				
		Uranium	7				
		Ytterbium	1.2				
		Zinc	<200				
		Zirconium	<500				
<u>Material Description</u> This material is described as a Porphyry copper, SW, Western Australia.							
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is light gray in colour.							
<u>Usage</u> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.							
<u>Preparation and Packaging</u> 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.							
<u>Assay Testwork</u> 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.							
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.							
<u>Material Safety</u> This product is not hazardous and non-toxic.							

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