

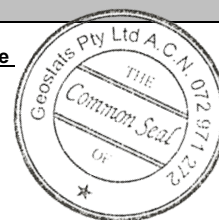
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM913-9

Certified Control Values



GBM913-9

### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	6	2	57	+/- 0.6
Copper (ppm)	4542	132	73	+/- 31.1
Zinc (ppm)	158	7	61	+/- 1.7
Lead (ppm)	404	28	64	+/- 7
Arsenic (ppm)	611	36	59	+/- 9.4
Cobalt (ppm)	13	1	66	+/- 0.3
Silver (ppm)	3.8	0.2	54	+/- 0.06

### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	5	1	44	+/- 0.5
Copper (ppm)	4494	187	71	+/- 44.7
Zinc (ppm)	149	12	65	+/- 3
Lead (ppm)	177	12	48	+/- 3.6
Arsenic (ppm)	600	29	58	+/- 7.8
Cobalt (ppm)	13	2	55	+/- 0.4
Silver (ppm)	3.7	0.4	68	+/- 0.09

### CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Major Elements by Fusion / XRF (%)	
		Fe	
Control statistics were produced from results accumulated in the October-2013 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony 36.8	6.22	
	Arsenic 620	63.75	
	Barium 136	17.29	
	Bromine <0.469	0.588	
	Cadmium <3.16	0.02	
	Caesium <0.193	0.04	
	Calcium (%) nr	0.101	
	Cerium 32	7.23	
	Chromium 1.14	0.04	
	Cobalt 12.7	0.187	
	Europium nr	0.054	
	Gold (ppb) 233	LOI1000	8
	Hafnium 2.55		
	Iridium (ppb) <20		
	Iron (%) 6.46		
	Lanthanum 17.7		
	Lutetium 0.15		
	Mercury nr		
	Molybdenum 37.9		
	Neodymium nr		
	Nickel 10		
	Potassium (%) nr		
	Rubidium <4.01		
	Samarium 2.56		
	Scandium 3.32		
	Selenium 4.02		
	Silver 3.5		
	Sodium (%) 0.075		
	Strontium nr		
	Tantalum 0.553		
	Tellurium nr		
	Terbium <0.152		
	Thorium 4.97		
	Tin nr		
	Tungsten 44		
	Uranium 2.14		
	Ytterbium nr		
	Zinc 150		
	Zirconium nr		
		Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
		'nr': Not Reported	
<b>Material Description</b> This material is described as an Argillic from Peru.			
<b>Colour Designation (ISCC-NBS, SP440)</b> This material is medium 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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Geostats Pty Ltd, Certified Geochem Base Metal Reference Material, Product Code: