

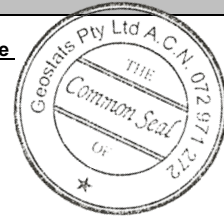
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM313-3

Certified Control Values



GBM313-3

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	256	15	57	+/- 4.1
Copper (ppm)	875	22	56	+/- 5.8
Zinc (ppm)	1012	54	58	+/- 14.2
Lead (ppm)	239	15	59	+/- 3.9
Arsenic (ppm)	1039	40	47	+/- 12
Cobalt (ppm)	37	3	56	+/- 0.8
Silver (ppm)	4.0	0.2	43	+/- 0.05

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	237	19	49	+/- 5.5
Copper (ppm)	881	26	57	+/- 6.9
Zinc (ppm)	981	65	58	+/- 17.3
Lead (ppm)	229	15	56	+/- 4.1
Arsenic (ppm)	1064	57	58	+/- 15.2
Cobalt (ppm)	34	5	49	+/- 1.3
Silver (ppm)	4.0	0.2	55	+/- 0.06

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 April-2013 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony 85.6	6.7	
	Arsenic 1000	SiO ₂ 60.15	
	Barium 244	Al ₂ O ₃ 11.33	
	Bromine 1.43	TiO ₂ 0.582	
	Cadmium <7.13	MnO 0.14	
	Caesium 3.6	CaO 3.41	
	Calcium (%) nr	P 0.042	
	Cerium 26.3	S 1.12	
	Chromium 2230	MgO 4.31	
	Cobalt 40.2	K ₂ O 1.99	
	Europium 1.22	Na ₂ O 1.703	
	Gold (ppb) 3460	LOI1000 4.73	
	Hafnium 2.11		
	Iridium (ppb) <13.4	Neutron Activation	
	Iron (%) 6.39	Analyses and Fusion /	
	Lanthanum 14.3	XRF Analyses are	
	Lutetium 0.182	single results and are	
	Mercury nr	indicative only. These	
	Molybdenum 3.46	are provided for matrix	
	Neodymium nr	identification purposes.	
	Nickel 254		
	Potassium (%) nr	'nr': Not Reported	
	Rubidium 76.7		
	Samarium 2.66		
	Scandium 11.9		
	Selenium <4.39		
	Silver 3.4		
	Sodium (%) 1.22		
	Strontium nr		
	Tantalum 1.82		
	Tellurium <6.56		
	Terbium 0.359		
	Thorium 6.98		
	Tin <158		
	Tungsten 25.2		
	Uranium 3.73		
	Ytterbium 1.47		
	Zinc 1060		
	Zirconium <164		
Material Description This material is described as a Composite ores.			
Colour Designation (ISCC-NBS, SP440) This material is grayish orange pink 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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Geostats Pty Ltd, Certified Geochem Base Metal Reference Material, Product Code: