

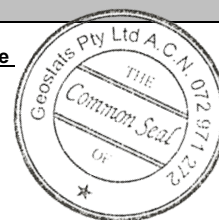
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM913-2

Certified Control Values



GBM913-2

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	4	2	49	+/- 0.5
Copper (ppm)	11	5	61	+/- 1.2
Zinc (ppm)	9	4	60	+/- 1.1
Lead (ppm)	17	5	59	+/- 1.4
Arsenic (ppm)	22	8	48	+/- 2.2
Cobalt (ppm)	2	1	31	+/- 0.4
Silver (ppm)	0.9	nr	nr	nr

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	5	2	36	+/- 0.8
Copper (ppm)	9	3	58	+/- 0.9
Zinc (ppm)	7	4	51	+/- 1.2
Lead (ppm)	13	6	51	+/- 1.7
Arsenic (ppm)	10	6	45	+/- 1.7
Cobalt (ppm)	3	nr	nr	nr
Silver (ppm)	0.5	nr	nr	nr

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-2013 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony 0.276	Fe	15.85
	Arsenic 23.7	SiO ₂	14.7
	Barium 49.7	Al ₂ O ₃	40
	Bromine 4.24	TiO ₂	1.475
	Cadmium <2.15	MnO	0.02
	Caesium 0.376	CaO	<0.01
	Calcium (%) nr	P	0.015
	Cerium 33.1	S	0.07
	Chromium 153	MgO	0.02
	Cobalt 1.3	K ₂ O	0.146
	Europium nr	Na ₂ O	0.013
	Gold (ppb) <1.06	LOI1000	20.61
	Hafnium 14.5	Neutron Activation	
	Iridium (ppb) <20	Analyses and Fusion /	
	Iron (%) 18.2	XRF Analyses are	
	Lanthanum 6.33	single results and are	
	Lutetium 0.223	indicative only. These	
	Mercury nr	are provided for matrix	
	Molybdenum 6.81	identification purposes.	
	Neodymium nr	'nr': Not Reported	
	Nickel <10		
	Potassium (%) nr		
	Rubidium 9.53		
	Samarium 0.264		
	Scandium 13.8		
	Selenium <2.52		
	Silver <1		
	Sodium (%) 0.101		
	Strontium nr		
	Tantalum 3.83		
	Tellurium nr		
	Terbium <0.0977		
	Thorium 113		
	Tin nr		
	Tungsten 1.43		
	Uranium 12.6		
	Ytterbium nr		
	Zinc 10		
	Zirconium nr		
Material Description This material is described as a Coffee rock.			
Colour Designation (ISCC-NBS, SP440) This material is pale reddish brown 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: