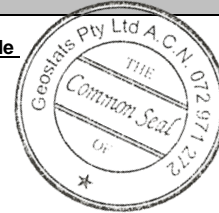


GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM915-8



Certified Control Values

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	4259	173	65	+/- 43.2
Copper (ppm)	5897	208	70	+/- 50
Zinc (ppm)	25	5	55	+/- 1.4
Lead (ppm)	42	6	60	+/- 1.6
Arsenic (ppm)	1873	59	48	+/- 17.4
Cobalt (ppm)	1083	45	60	+/- 11.7
Silver (ppm)	6.5	0.5	58	+/- 0.12

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	4267	184	53	+/- 51.3
Copper (ppm)	5923	321	71	+/- 76.6
Zinc (ppm)	25	nr	nr	nr
Lead (ppm)	36	8	59	+/- 2.2
Arsenic (ppm)	1681	108	62	+/- 27.7
Cobalt (ppm)	1069	86	58	+/- 22.8
Silver (ppm)	6.5	1.0	68	+/- 0.25

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-2015 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony	11.4	Fe
Material Description This material is described as a Blend of nickel filtercake and coffee rock.	Arsenic	1870	SiO ₂	12.95
	Colour Designation (ISCC-NBS, SP440) This material is light brown in colour.	Barium	<50	Al ₂ O ₃
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.		Bromine	5	TiO ₂
	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.	Cadmium	<10	MnO
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.		Caesium	<1	CaO
	Stability This product remains stable in its original packaging, away from direct sunlight.	Calcium (%)	nr	P
Material Safety This product is not hazardous and non-toxic.		Cerium	18.3	S
	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Chromium	100	MgO
Cobalt		1140	K ₂ O	0.121
Major Elements by Fusion / XRF (%)	Europium	<0.5	Na ₂ O	nr
	Gold (ppb)	400	LOI1000	20.57
Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	Hafnium	13		
	Iridium (ppb)	225		
'nr': Not Reported	Iron (%)	18.2		
	Lanthanum	5		
Other Elements	Lutetium	0.11		
	Mercury	nr		
	Molybdenum	<10		
	Neodymium	nr		
	Nickel	4190		
	Potassium (%)	nr		
	Rubidium	<20		
	Samarium	0.4		
	Scandium	16.8		
	Selenium	24		
	Silver	5		
	Sodium (%)	<0.05		
	Strontium	nr		
	Tantalum	3		
	Tellurium	<20		
	Terbium	<1		
	Thorium	79.5		
	Tin	<200		
	Tungsten	<5		
	Uranium	9		
	Ytterbium	<1		
	Zinc	<100		
	Zirconium	<500		

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