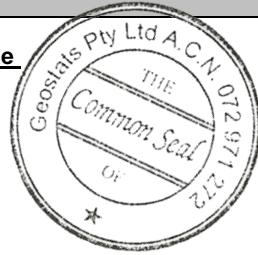


GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM915-14



Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	13070	505	91	+/- 106
Copper (ppm)	17404	546	120	+/- 99
Zinc (ppm)	67	nr	nr	nr
Lead (ppm)	95	nr	nr	nr
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	18.5	1.4	109	+/- 0.27
Sulphur (%)	2.08	0.14	98	+/- 0.03

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	32.9	Fe
Material Description This material is described as a Blend of nickel filtercake and coffee rock.	Arsenic	5650	SiO ₂	10.54
	Barium	<200	Al ₂ O ₃	28.78
Colour Designation (ISCC-NBS, SP440) This material is moderate brown in colour.	Bromine	<2	TiO ₂	1.41
	Cadmium	<20	MnO	0.11
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Caesium	2	CaO	0.15
	Calcium (%)	nr	P	0.016
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.	Cerium	18.4	S	2.127
	Chromium	<20	MgO	0.13
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.	Cobalt	3470	K ₂ O	0.115
	Europium	<0.5	Na ₂ O	nr
Stability This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	11230	LOI1000	22.27
	Hafnium	11	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
Material Safety This product is not hazardous and non-toxic.	Iridium (ppb)	630	nr: Not Reported	
	Iron (%)	20.8		
	Lanthanum	4		
	Lutetium	<0.05		
	Mercury	nr		
	Molybdenum	<10		
	Neodymium	nr		
	Nickel	12750		
	Potassium (%)	nr		
	Rubidium	<20		
	Samarium	0.3		
	Scandium	12.8		
	Selenium	79		
	Silver	17		
	Sodium (%)	<0.05		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	<1		
	Thorium	71.9		
	Tin	<200		
	Tungsten	<10		
	Uranium	9		
	Ytterbium	<1		
	Zinc	<100		
	Zirconium	<500		

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