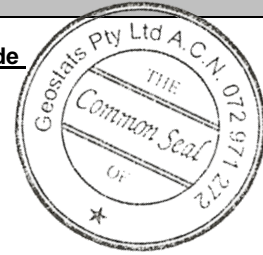


GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM915-16



Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	197	nr	nr	nr
Copper (ppm)	22960	581	117	+/- 107
Zinc (ppm)	19551	676	100	+/- 135
Lead (ppm)	9698	415	106	+/- 80
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	51.2	3.4	110	+/- 0.64
Sulphur (%)	3.88	0.13	96	+/- 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	809	Fe
Material Description This material is described as a High grade gold Cu Pb Zn ore some sulphide.	Arsenic	1290	SiO ₂	51.08
	Barium	343	Al ₂ O ₃	11.44
Colour Designation (ISCC-NBS, SP440) This material is medium dark gray in colour.	Bromine	<2	TiO ₂	1.38
	Cadmium	46.6	MnO	0.15
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Caesium	<1	CaO	5.28
	Calcium (%)	nr	P	0.066
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	36	S	3.825
	Chromium	70	MgO	2.91
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	115	K ₂ O	1.65
	Europium	1.17	Na ₂ O	nr
Stability This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	18100	LOI1000	2.59
	Hafnium	<5	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)	<50	nr: Not Reported	
	Iron (%)	8.9		
	Lanthanum	20		
	Lutetium	0.4		
	Mercury	nr		
	Molybdenum	83.9		
	Neodymium	nr		
	Nickel	200		
	Potassium (%)	nr		
	Rubidium	83		
	Samarium	4.5		
	Scandium	19.4		
	Selenium	22		
	Silver	51		
	Sodium (%)	1.96		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	<1		
	Thorium	10		
	Tin	<200		
	Tungsten	<10		
	Uranium	6		
	Ytterbium	3		
	Zinc	19500		
	Zirconium	<500		

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