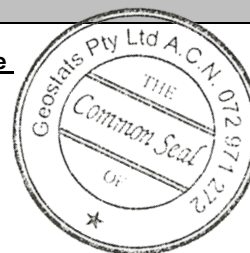


GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM913-11



Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	27	nr	nr	nr
Copper (ppm)	1453	nr	nr	nr
Zinc (ppm)	78969	2849	112	+/- 536
Lead (ppm)	35846	1541	107	+/- 297
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	32.5	2.3	116	+/- 0.42
Sulphur (%)	11.18	0.32	87	+/- 0.07

CRM Details

<u>Control Statistic Details</u> 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.	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>		<u>Major Elements by Fusion / XRF (%)</u>	
	<u>Material Description</u> This material is described as a Composite Sulphide Pb/Zn ore.	Antimony	51.7	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is medium gray in colour.	Arsenic	1120	SiO ₂	31.57
<u>Usage</u> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Barium	164	Al ₂ O ₃	6.67
<u>Preparation and Packaging</u> 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.	Bromine	3.32	TiO ₂	0.297
<u>Assay Testwork</u> 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.	Cadmium	218	MnO	0.45
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Caesium	8.93	CaO	7.69
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	nr	P	0.058
	Cerium	43.1	S	11.1
	Chromium	17.1	MgO	4.66
	Cobalt	34.6	K ₂ O	2.82
	Europium	nr	Na ₂ O	0.135
	Gold (ppb)	9.46	LOI1000	10.22
	Hafnium	1.59		
	Iridium (ppb)	<20	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%)	8.55	'nr': Not Reported	
	Lanthanum	21.7		
	Lutetium	0.274		
	Mercury	nr		
	Molybdenum	4.65		
	Neodymium	nr		
	Nickel	28.8		
	Potassium (%)	nr		
	Rubidium	120		
	Samarium	3.09		
	Scandium	5.99		
	Selenium	<3		
	Silver	30		
	Sodium (%)	0.106		
	Strontium	nr		
	Tantalum	0.323		
	Tellurium	nr		
	Terbium	<0.232		
	Thorium	7.72		
	Tin	nr		
	Tungsten	2.46		
	Uranium	2.57		
	Ytterbium	nr		
	Zinc	82000		
	Zirconium	nr		

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