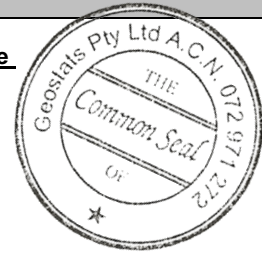


GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM903-12



Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	201	nr	nr	nr
Copper (ppm)	5991	nr	nr	nr
Zinc (ppm)	489451	10463	36	+/- 3590
Lead (ppm)	10989	nr	nr	nr
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	nr	nr	nr	nr
Sulphur (%)	nr	nr	nr	nr

CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the October-2003 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 Zinc Concentrate .	Antimony	nr	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is yellowish brown in colour.	Arsenic	nr	SiO ₂	nr
<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	nr	Al ₂ O ₃	nr
<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	nr	TiO ₂	nr
<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	nr	MnO	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Caesium	nr	CaO	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	nr	P	nr
	Cerium	nr	S	nr
	Chromium	nr	MgO	nr
	Cobalt	nr	K ₂ O	nr
	Europium	nr	Na ₂ O	nr
	Gold (ppb)	nr	LOI1000	nr
	Hafnium	nr		
	Iridium (ppb)	nr	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%)	nr	'nr': Not Reported	
	Lanthanum	nr		
	Lutetium	nr		
	Mercury	nr		
	Molybdenum	nr		
	Neodymium	nr		
	Nickel	nr		
	Potassium (%)	nr		
	Rubidium	nr		
	Samarium	nr		
	Scandium	nr		
	Selenium	nr		
	Silver	nr		
	Sodium (%)	nr		
	Strontium	nr		
	Tantalum	nr		
	Tellurium	nr		
	Terbium	nr		
	Thorium	nr		
	Tin	nr		
	Tungsten	nr		
	Uranium	nr		
	Ytterbium	nr		
	Zinc	nr		
	Zirconium	nr		

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