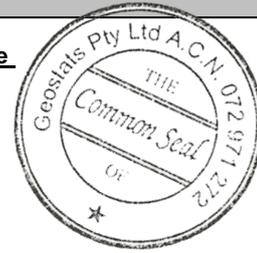


GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM908-12



Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	nr	nr	nr	nr
Copper (ppm)	2625	110	84	+/- 24
Zinc (ppm)	25161	883	54	+/- 243
Lead (ppm)	10924	445	105	+/- 87
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	22.0	1.4	78	+/- 0.32
Sulphur (%)	7.77	0.26	89	+/- 0.06

CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the October-2008 & April-2009 round robins. 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>	
	Element	Value	Element	Value
<u>Material Description</u> This material is described as a Zn Sulphide ore.	Antimony	21.7	Fe	nr
	Arsenic	62.3	SiO ₂	nr
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is olive gray in colour.	Barium	570	Al ₂ O ₃	nr
	Bromine	<1	TiO 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.	Cadmium	64	MnO	nr
	Caesium	1.75	CaO	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.	Calcium (%)	nr	P	nr
	Cerium	38	S	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.	Chromium	26.5	MgO	nr
	Cobalt	43	K ₂ O	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Europium	1.25	Na ₂ O	nr
	Gold (ppb)	132.5	LOI1000	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Hafnium	4	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes. 'nr': Not Reported	
	Iridium (ppb)	<20		
Iron (%)	13.95			
Lanthanum	19.5			
Lutetium	0.5			
Mercury	nr			
Molybdenum	10			
Neodymium	nr			
Nickel	25			
Potassium (%)	nr			
Rubidium	53			
Samarium	5.4			
Scandium	25.05			
Selenium	3			
Silver	20.5			
Sodium (%)	1.7			
Strontium	nr			
Tantalum	0.95			
Tellurium	<10			
Terbium	1.1			
Thorium	5.75			
Tin	<100			
Tungsten	8			
Uranium	3.05			
Ytterbium	3.65			
Zinc	25350			
Zirconium	<100			

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