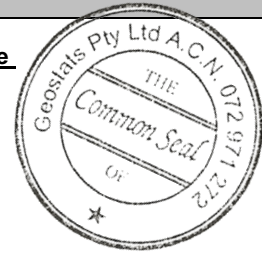


GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM308-13



Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	44	nr	nr	nr
Copper (ppm)	18582	543	50	+/- 156
Zinc (ppm)	9631	483	49	+/- 140
Lead (ppm)	3246	207	48	+/- 61
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	19.8	1.3	37	+/- 0.42
Sulphur (%)	16.30	0.33	31	+/- 0.12

CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the April-2008 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>	
	Element	Concentration	Element	Concentration
<u>Material Description</u> This material is described as a Cu Sulphide Ore ex Qld.	Antimony	13.3	Fe	nr
	Arsenic	144	SiO ₂	nr
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is medium dark gray in colour.	Barium	210	Al ₂ O ₃	nr
	Bromine	0.6	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	30	MnO	nr
	Caesium	1.6	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	42	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	<20	MgO	nr
	Cobalt	82	K ₂ O	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Europium	2	Na ₂ O	nr
	Gold (ppb)	465	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.	
	Iridium (ppb)	<50	'nr': Not Reported	
	Iron (%)	21.5		
	Lanthanum	23		
	Lutetium	0.4		
	Mercury	nr		
	Molybdenum	8		
	Neodymium	nr		
	Nickel	59		
	Potassium (%)	nr		
	Rubidium	45		
	Samarium	5.4		
	Scandium	18		
	Selenium	38		
	Silver	19		
	Sodium (%)	1.1		
	Strontium	nr		
	Tantalum	1.1		
	Tellurium	<10		
	Terbium	0.8		
	Thorium	6.8		
	Tin	<100		
	Tungsten	2		
	Uranium	3		
	Ytterbium	<2		
	Zinc	10200		
	Zirconium	<200		

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