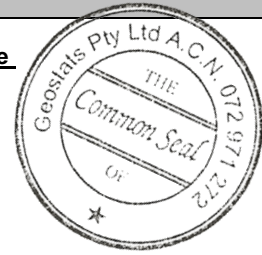


GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM903-14



Certified Control Values

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	196	25	44	+/- 8
Copper (ppm)	263031	6240	84	+/- 1362
Zinc (ppm)	1392	96	48	+/- 28
Lead (ppm)	612	90	46	+/- 27
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 & April-2005 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>	
	<u>Material Description</u> This material is described as a Copper Concentrate ex NSW.	Antimony	103	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is dark gray in colour.	Arsenic	360	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	220	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	1	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	30	MnO	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Caesium	<0.32	CaO	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	nr	P	nr
	Cerium	9.9	S	nr
	Chromium	17.6	MgO	nr
	Cobalt	70.9	K ₂ O	nr
	Europium	0.366	Na ₂ O	nr
	Gold (ppb)	52300	LOI1000	nr
	Hafnium	1.26		
	Iridium (ppb)	<4		
	Iron (%)	20.4		
	Lanthanum	7.93		
	Lutetium	0.129		
	Mercury	18.6		
	Molybdenum	500		
	Neodymium	2.4		
	Nickel	150		
	Potassium (%)	1.4		
	Rubidium	29		
	Samarium	1.29		
	Scandium	4.31		
	Selenium	237		
	Silver	51.1		
	Sodium (%)	0.467		
	Strontium	nr		
	Tantalum	1.06		
	Tellurium	21		
	Terbium	<0.18		
	Thorium	5.13		
	Tin	<67		
	Tungsten	2.7		
	Uranium	5.58		
	Ytterbium	1.18		
	Zinc	1290		
	Zirconium	<130		

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