

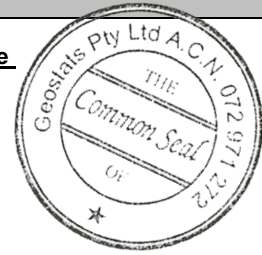
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM306-14

Certified Control Values



GBM306-14

Geostats Pty Ltd, Certified Ore Grade Base Metal Reference Material, Product Code:

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	34435	1124	63	+/- 285
Copper (ppm)	16709	594	87	+/- 127
Zinc (ppm)	765	90	51	+/- 26
Lead (ppm)	909	64	47	+/- 19
Cobalt (ppm)	nr	nr	nr	nr
Silver (ppm)	8.1	nr	nr	nr
Sulphur (%)	3.35	nr	nr	nr

CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the April-2006 & April-2008 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 Sulphide Ore.	Antimony	10.9	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is light brownish gray in colour.	Arsenic	340	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	125	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	0.3	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	7.3	CaO	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	nr	P	nr
	Cerium	21	S	nr
	Chromium	385	MgO	nr
	Cobalt	147.5	K ₂ O	nr
	Europium	0.6	Na ₂ O	nr
	Gold (ppb)	13050	LOI1000	nr
	Hafnium	10.5		
	Iridium (ppb)	27	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%)	6.12	nr: Not Reported	
	Lanthanum	16		
	Lutetium	0.17		
	Mercury	nr		
	Molybdenum	37.5		
	Neodymium	nr		
	Nickel	35200		
	Potassium (%)	nr		
	Rubidium	275		
	Samarium	1.55		
	Scandium	8.35		
	Selenium	<18		
	Silver	6.5		
	Sodium (%)	0.825		
	Strontium	nr		
	Tantalum	108.3		
	Tellurium	<10		
	Terbium	<0.5		
	Thorium	5.7		
	Tin	<100		
	Tungsten	17.5		
	Uranium	7.95		
	Ytterbium	1.2		
	Zinc	665		
	Zirconium	<480		

20 Hines Road, O'Connor, Western Australia 6163

Phone : +61 8 9314 2566, Fax : +61 8 9314 3699

e-mail : pjh@geostats.com.au, srr@geostats.com.au

Website <http://www.geostats.com.au>