

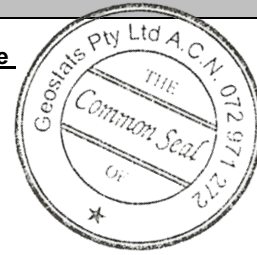
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM906-15

Certified Control Values



GBM906-15

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

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	nr	nr	nr	nr
Copper (ppm)	494	101	52	+/- 28
Zinc (ppm)	119866	6624	45	+/- 2013
Lead (ppm)	3495	151	41	+/- 48
Cobalt (ppm)	17	nc	nc	nc
Silver (ppm)	4.3	1.0	38	+/- 0.34
Sulphur (%)	nr	nr	nr	nr

CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the October-2006 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	Value	Element	Value
<u>Material Description</u> This material is described as a Zinc Ore.	Antimony	9.86	Fe	nr
	Arsenic	59.9	SiO ₂	nr
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is medium gray in colour.	Barium	116	Al ₂ O ₃	nr
	Bromine	3.6	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	nr	MnO	nr
	Caesium	12.3	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	74.7	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	45.4	MgO	nr
	Cobalt	14.6	K ₂ O	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Europium	3.39	Na ₂ O	nr
	Gold (ppb)	90.9	LOI1000	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Hafnium	1.94	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iridium (ppb)	<17.3	'nr': Not Reported	
	Iron (%)	6.91		
	Lanthanum	39.7		
	Lutetium	0.254		
	Mercury	nr		
	Molybdenum	15.7		
	Neodymium	<20.8		
	Nickel	65.7		
	Potassium (%)	nr		
	Rubidium	116		
	Samarium	5.61		
	Scandium	7.14		
	Selenium	<1.88		
	Silver	<2.89		
	Sodium (%)	0.164		
	Strontium	<20.4		
	Tantalum	0.817		
	Tellurium	nr		
	Terbium	0.775		
	Thorium	9.45		
	Tin	<115		
	Tungsten	2.51		
	Uranium	6.71		
	Ytterbium	2.74		
	Zinc	115000		
	Zirconium	nr		

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>