

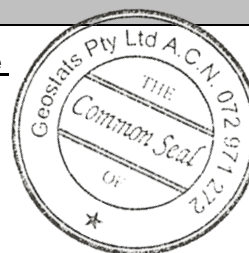
# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM300-7

Certified Control Values



GBM300-7

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

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	13	6	98	+/- 1.1
Copper (ppm)	450	47	134	+/- 8
Zinc (ppm)	163	15	119	+/- 2.8
Lead (ppm)	219	18	117	+/- 3.4
Arsenic (ppm)	9	4	67	+/- 0.9
Cobalt (ppm)	9	3	52	+/- 0.8
Silver (ppm)	153.8	9.0	100	+/- 1.8

### CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the April-1997 & April-2000 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 an Au / Ag ore ex Indonesia.	Antimony	0.86	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is light gray in colour.	Arsenic	7.535	SiO <sub>2</sub>	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	5	Al <sub>2</sub> O <sub>3</sub>	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	<2	TiO <sub>2</sub>	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	15.7	CaO	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	2	P	nr
	Cerium	9.35	S	nr
	Chromium	54.85	MgO	nr
	Cobalt	12.7	K <sub>2</sub> O	nr
	Europium	<1	Na <sub>2</sub> O	nr
	Gold (ppb)	4640	LOI1000	nr
	Hafnium	29.9		
	Iridium (ppb)	<20	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%)	2.385	nr: Not Reported	
	Lanthanum	3.86		
	Lutetium	0.265		
	Mercury	nr		
	Molybdenum	83		
	Neodymium	nr		
	Nickel	nr		
	Potassium (%)	1.915		
	Rubidium	492		
	Samarium	1.725		
	Scandium	8.31		
	Selenium	<5		
	Silver	127		
	Sodium (%)	1.255		
	Strontium	nr		
	Tantalum	<1		
	Tellurium	<5		
	Terbium	nr		
	Thorium	1.03		
	Tin	nr		
	Tungsten	<4		
	Uranium	<2		
	Ytterbium	1.79		
	Zinc	219		
	Zirconium	1300		

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