

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

BM7

Certified Control Values



BM7

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	49	10	95	+/- 2
Copper (ppm)	13973	541	110	+/- 102.6
Zinc (ppm)	861	44	104	+/- 8.7
Lead (ppm)	1604	206	101	+/- 40.9
Arsenic (ppm)	341	45	96	+/- 9.2
Cobalt (ppm)	74	9	56	+/- 2.5
Silver (ppm)	7.5	0.6	54	+/- 0.2

CRM Details

<u>Control Statistic Details</u> Control statistics were produced from results accumulated in the April-1995 & April-2007 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 Western Pilbara Oxide.	Antimony	124	Fe
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is light brown in colour.	Arsenic	362	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	130	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	1.2	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	<5	MnO	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Caesium	0.8	CaO	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Calcium (%)	0	P	nr
	Cerium	33	S	nr
	Chromium	140	MgO	nr
	Cobalt	81	K ₂ O	nr
	Europium	3	Na ₂ O	nr
	Gold (ppb)	445	LOI1000	nr
	Hafnium	2		
	Iridium (ppb)	<50		
	Iron (%)	8.6		
	Lanthanum	21		
	Lutetium	<0.2		
	Mercury	nr		
	Molybdenum	38		
	Neodymium	nr		
	Nickel	62		
	Potassium (%)	0		
	Rubidium	22		
	Samarium	4.1		
	Scandium	10		
	Selenium	14		
	Silver	6.6		
	Sodium (%)	0.18		
	Strontium	nr		
	Tantalum	<0.5		
	Tellurium	<10		
	Terbium	<0.5		
	Thorium	5.9		
	Tin	<100		
	Tungsten	13		
	Uranium	5.9		
	Ytterbium	<2		
	Zinc	810		
	Zirconium	<200		

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