GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM398-7

Certified Control Values



Major Elements by

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval	
Nickel (ppm)	192	19	61	+/- 4.9	
Copper (ppm)	315	22	76	+/- 5.1	
Zinc (ppm)	400	26	72	+/- 6.2	
Lead (ppm)	510	41	69	+/- 9.9	
Arsenic (ppm)	69	7	52	+/- 2	
Cobalt (ppm)	8	3	36	+/- 1	
Silver (ppm)	6.0	0.5	56	+/- 0.1	

CRM Details

Neutron Activation

Control Statistic Details	Analysis Results (ppm,		Fusion / XRF (%)	
Control statistics were produced from results accumulated in the April-1998 round	unless otherwise noted)			
robin. The number of results used to certify each analyte is shown in the table	Antimony	1.64	Fe	nr
above.	Arsenic	69.1	SiO ₂	nr
	Barium	<100	Al ₂ O ₃	nr
Material Description	Bromine	<1	TiO ₂	nr
This material is described as a Low grade oxide gold ore.	Cadmium	nr	MnO	nr
	Caesium	20	CaO	nr
	Calcium (%)	1.51	Р	nr
Colour Designation (ISCC-NBS, SP440)	Cerium	6.99	S	nr
This material is grayish orange pink in colour.	Chromium	149	MgO	nr
	Cobalt	8.74	K ₂ O	nr
<u>Usage</u>	Europium	0.51	Na ₂ O	nr
This product is for use in the mining industry as a reference material for	Gold (ppb)	1000	LOI1000	nr
monitoring and testing the accuracy of laboratory assaying.	Hafnium	2.55		
	Iridium (ppb)	<20	Neutron Act	ivation
Preparation and Packaging	Iron (%)	2.45	Analyses ar	nd Fusion /
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry	Lanthanum	3.05	XRF Analyses are	
material is then pulverised to better than 75 micron (nominal mean of 45 micron)	Lutetium	<0.2	single results and are	
using an air classifier. The material is then homogenised and stored in a sealed,	Mercury	nr	indicative only. These	
stable container ready for final packaging.	Molybdenum	<5	are provided for matrix	
	Neodymium	nr	identification	า
Materials are statistically sampled from stores, then packaged into either heat	Nickel	nr	purposes.	
sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready	Potassium (%)	2.54		
for distribution. All packaging has been chosen to ensure minimal contamination	Rubidium	584	'nr': Not Rep	oorted
from outside sources during shipment, use and storage.	Samarium	1.35		
	Scandium	6.72		
Assay Testwork	Selenium	<5		
All standards are tested thoroughly in the Geostats bi-annual laboratory survey.	Silver	<5		
This involves assaying by multiple laboratories from around the world. Results are	Sodium (%)	1.22		
compiled into a comprehensive report detailing statistics for each standard. Assay	Strontium	nr		
distributions are checked and processed statistically, producing monitoring	Tantalum	<1		
statistics for these standards. Materials are tested regularly to ensure stability and	Tellurium	<5		
homogeneity.	Terbium	nr		
	Thorium	0.5		
<u>Stability</u>	Tin	nr		
This product remains stable in its original packaging, away from direct sunlight.	Tungsten	<2		
	Uranium	<2		
Material Safety	Ytterbium	0.82		
This product is not hazardous and non-toxic.	Zinc	415		
	Zirconium	<500		

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