GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM905-1

Certified Control Values



Major Elements by

Neutron Activation

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval	
Nickel (ppm)	115	12	51	+/- 3.4	
Copper (ppm)	81	5	48	+/- 1.3	
Zinc (ppm)	86	11	56	+/- 3.1	
Lead (ppm)	13	3	43	+/- 0.9	
Arsenic (ppm)	250	25	49	+/- 7.2	
Cobalt (ppm)	15	4	50	+/- 1.1	
Silver (ppm)	22.9	1.8	50	+/- 0.5	

CRM Details

	Neutron Activation		wajor Elements by	
Control Statistic Details	Analysis Results (ppm,		Fusion / XRF (%)	
Control statistics were produced from results accumulated in the October-2005	unless otherwi	se noted)		
round robin. The number of results used to certify each analyte is shown in the	Antimony	4.5	Fe	nr
table above.	Arsenic	256	SiO ₂	nr
	Barium	<50	Al ₂ O ₃	nr
Material Description	Bromine	0.6	TiO ₂	nr
This material is described as a Composite of low sulphide and transition ores.	Cadmium	<5	MnO	nr
	Caesium	41	CaO	nr
	Calcium (%)	nr	Р	nr
Colour Designation (ISCC-NBS, SP440)	Cerium	10	S	nr
This material is grayish orange pink in colour.	Chromium	120	MgO	nr
	Cobalt	19	K ₂ O	nr
<u>Usage</u>	Europium	<1	Na ₂ O	nr
This product is for use in the mining industry as a reference material for	Gold (ppb)	6580	LOI1000	nr
monitoring and testing the accuracy of laboratory assaying.	Hafnium	1		
	Iridium (ppb)	<50	Neutron Act	ivation
Preparation and Packaging	Iron (%)	3.3	Analyses ar	nd Fusion /
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry	Lanthanum	4	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 or	nly. These
stable container ready for final packaging.	Molybdenum	34	are provided for matrix	
	Neodymium	nr	identification	า
Materials are statistically sampled from stores, then packaged into either heat	Nickel	110	purposes.	
sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready	Potassium (%)	nr		
for distribution. All packaging has been chosen to ensure minimal contamination	Rubidium	1130	'nr': Not Rep	oorted
from outside sources during shipment, use and storage.	Samarium	1.7		
	Scandium	10		
Assay Testwork	Selenium	<5		
All standards are tested thoroughly in the Geostats bi-annual laboratory survey.	Silver	23		
This involves assaying by multiple laboratories from around the world. Results are	Sodium (%)	1.2		
compiled into a comprehensive report detailing statistics for each standard. Assay	Strontium	nr		
distributions are checked and processed statistically, producing monitoring	Tantalum	0.7		
statistics for these standards. Materials are tested regularly to ensure stability and	Tellurium	<10		
homogeneity.	Terbium	<0.5		
	Thorium	0.6		
<u>Stability</u>	Tin	<100		
This product remains stable in its original packaging, away from direct sunlight.	Tungsten	4		
	Uranium	0.3		
Material Safety	Ytterbium	<2		
This product is not hazardous and non-toxic.	Zinc	85		
	Zirconium	<200		

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