GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM905-14

Certified Control Values



Major Elements by

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval	
Nickel (ppm)	531	nr	nr	nr	
Copper (ppm)	173667	5097	43	+/- 1587	
Zinc (ppm)	74	nr	nr	nr	
Lead (ppm)	334	nr	nr	nr	
Cobalt (ppm)	nr	nr	nr	nr	
Silver (ppm)	nr	nr	nr	nr	
Sulphur (%)	nr	nr	nr	nr	

CRM Details

Neutron Activation

	Neutron Activation		wajor Elements by	
Control Statistic Details	Analysis Results (ppm, unless otherwise noted)		Fusion / XRF (%)	
Control statistics were produced from results accumulated in the October-2005				
round robin. The number of results used to certify each analyte is shown in the	Antimony	2.1	Fe	nr
table above.	Arsenic	3100	SiO ₂	nr
	Barium	<50	Al ₂ O ₃	nr
Material Description	Bromine	<0.5	TiO ₂	nr
This material is described as a Copper concentrate.	Cadmium	<5	MnO	nr
	Caesium	<0.5	CaO	nr
	Calcium (%)	nr	Р	nr
Colour Designation (ISCC-NBS, SP440)	Cerium	200	S	nr
This material is medium gray in colour.	Chromium	100	MgO	nr
	Cobalt	3190	K ₂ O	nr
<u>Usage</u>	Europium	2	Na ₂ O	nr
This product is for use in the mining industry as a reference material for	Gold (ppb)	50000	LOI1000	nr
monitoring and testing the accuracy of laboratory assaying.	Hafnium	5		
	Iridium (ppb)	<50	Neutron Act	ivation
Preparation and Packaging	Iron (%)	21.7	Analyses and Fusion /	
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry	Lanthanum	130	XRF Analyses are	
material is then pulverised to better than 75 micron (nominal mean of 45 micron)	Lutetium	8.0	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	6	are provided for matrix	
	Neodymium	nr	identification	n
Materials are statistically sampled from stores, then packaged into either heat	Nickel	540	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	<15	'nr': Not Rep	oorted
from outside sources during shipment, use and storage.	Samarium	14.9		
	Scandium	9.2		
Assay Testwork	Selenium	<5		
All standards are tested thoroughly in the Geostats bi-annual laboratory survey.	Silver	17		
This involves assaying by multiple laboratories from around the world. Results are	Sodium (%)	0.1		
compiled into a comprehensive report detailing statistics for each standard. Assay	Strontium	nr		
distributions are checked and processed statistically, producing monitoring	Tantalum	<0.5		
statistics for these standards. Materials are tested regularly to ensure stability and	Tellurium	<10		
homogeneity.	Terbium	1		
	Thorium	12		
Stability	Tin	<100		
This product remains stable in its original packaging, away from direct sunlight.	Tungsten	193		
	Uranium	4.1		
Material Safety	Ytterbium	5		
This product is not hazardous and non-toxic.	Zinc	<100		
	Zirconium	<200		

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