GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM396-4

Certified Control Values



Major Elements by

Neutron Activation

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval	
Nickel (ppm)	107	11	137	+/- 1.9	
Copper (ppm)	6627	286	162	+/- 44.5	
Zinc (ppm)	150	11	145	+/- 1.7	
Lead (ppm)	104	14	145	+/- 2.3	
Arsenic (ppm)	1436	99	135	+/- 16.9	
Cobalt (ppm)	166	17	52	+/- 4.7	
Silver (ppm)	2.0	0.5	94	+/- 0.1	

CRM Details

Control Statistic Details Control Statistics were produced from results accumulated in the April-1995, April- 1996 & April-2007 round robins. The number of results used to certify each analyte is shown in the table above. Material Description This material is described as a Low grade copper/gold composite ore ex Pilbara. Cadmium This material is described as a Low grade copper/gold composite ore ex Pilbara. Cadmium Caesium Calcium (%) Caes		Neutron Activation		wajor Elements by	
1996 & April-2007 round robins. The number of results used to certify each analyte is shown in the table above. Antimony Arsenic Barium 239.5 AlzO3 nr Arsenic Barium 239.5 AlzO3 nr	Control Statistic Details	Analysis Results (ppm,		Fusion / XRF (%)	
Arsenic Barium 239.5 AlzO3 nr Barium 239.5 AlzO3 nr Garium 240.5 TiO2 nr Cadium 240.5 TiO2 nr Calcium (%) 0 P nr Chromium 153 Cobalt 179.5 S nr Chromium 153 Cobalt 179.5 S nr Gold (ppb) 143.6 Tion (ppb) 150 Nr Chromium 153 Nr Cobalt 179.5 Nr Chromium 153 Nr	Control statistics were produced from results accumulated in the April-1995, April-	unless otherwise noted)			
Material Description This material is described as a Low grade copper/gold composite ore ex Pilbara. Cadium (%) Caesium Cadium (%) Caesium Cadium (%) Cerium Chromium Cobalt Cohemium Cobalt Cohemium Cobalt Cohemium Cobalt Coba	1996 & April-2007 round robins. The number of results used to certify each	Antimony	56.2	Fe	nr
Material Description This material is described as a Low grade copper/gold composite ore ex Pilbara. Cadmium (200 nr (20	analyte is shown in the table above.	Arsenic	1410	SiO ₂	nr
This material is described as a Low grade copper/gold composite ore ex Pilbara. Cadimium Calcium (%) Cacium (Barium	239.5	Al ₂ O ₃	nr
Caesium (%) Calcium (%) Cerium 75.7 S nr 75.7 This material is light olive gray in colour. Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying. Preparation and Packaging 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, 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. Assay Testwork 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. Caecium (%) Cerium (75.7 S S nr 747 Mg/Ochalt (179.5 Nazo) nr LOI1000 nr LOI1000 nr LOI1000 nr LOI1000 nr LOI1000 nr LOI1000 nr Naviet (190.5	Material Description	Bromine	<0.5	TiO ₂	nr
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Material Safety This product is not hazardous and non-toxic. Uranium 2.785 Ytterbium 4.205 Zinc 166	This product remains stable in its original packaging, away from direct sunlight.	Tungsten	39.05		
This product is not hazardous and non-toxic.			2.785		
This product is not hazardous and non-toxic.	Material Safety	Ytterbium	4.205		
		Zinc			
	·	Zirconium	<200		

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