

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G308-4

Certified Control Values

50 gram Fire Assay

Gold Grade 6.77 ppm
Standard Deviation 0.29 ppm
Confidence Interval +/- 0.056 ppm

Aqua Regia Digest

Gold Grade 6.65 ppm
Standard Deviation 0.44 ppm
Confidence Interval +/- 0.146 ppm



CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)		Major Elements by Fusion / XRF (%)	
Control statistics were produced from results accumulated in the April-2008 round robin. A total of 107 fire assay results and 38 results from an aqua regia technique were used to certify this material.	Antimony	0.2	Fe	nr
	Arsenic	45	SiO ₂	nr
	Barium	1300	Al ₂ O ₃	nr
	Bromine	<0.5	TiO ₂	nr
	Cadmium	<5	MnO	nr
	Caesium	1.3	CaO	nr
	Calcium (%)	nr	P	nr
	Cerium	88	S	nr
	Chromium	43	MgO	nr
	Cobalt	72	K ₂ O	nr
	Europium	2	Na ₂ O	nr
	Gold (ppb)	7200	LOI1000	nr
	Hafnium	6		
	Iridium (ppb)	<50	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%)	7.4	'nr': Not Reported	
	Lanthanum	61		
	Lutetium	0.5		
	Mercury	nr		
	Molybdenum	28		
	Neodymium	nr		
	Nickel	36		
	Potassium (%)	nr		
	Rubidium	86		
	Samarium	10		
	Scandium	20.5		
	Selenium	<5		
	Silver	16		
	Sodium (%)	2.1		
	Strontium	nr		
	Tantalum	1.3		
	Tellurium	<10		
	Terbium	1.5		
	Thorium	20		
	Tin	<100		
	Tungsten	6		
	Uranium	3.5		
	Ytterbium	4		
	Zinc	<100		
	Zirconium	220		
Material Description This material is described as a Low Sulphur Mine Ores.				
Colour Designation (ISCC-NBS, SP440) This material is light 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, 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.				
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.				
Stability This product remains stable in its original packaging, away from direct sunlight.				
Material Safety This product is not hazardous and non-toxic.				

20 Hines Road, O'Connor, Western Australia 6163

Phone : +61 8 9314 2566, Fax : +61 8 9314 3699

e-mail : pjh@geostats.com.au, srr@geostats.com.au

Website <http://www.geostats.com.au>

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