Pty Ltd A

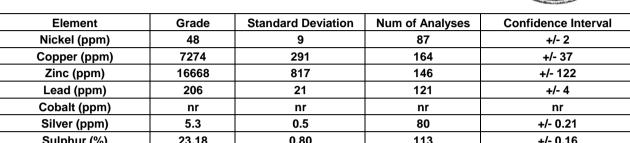
GEOSTATS PTY LTD

Mining Industry Consultants Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM919-12

Certified Control Values



Zinc (ppm)	10000	817	146		+/- 122				
Lead (ppm)	206	21	121		+/- 4				
Cobalt (ppm)	nr	nr	nr		nr				
Silver (ppm)	5.3	0.5	80		+/- 0.21				
Sulphur (%)	23.18	0.80	113		+/- 0.16				
CRM Details									
			Neutron Activ	Neutron Activation		Major Elements by			
Control Statistic Details				Analysis Results (ppm,		Fusion / XRF (%)			
Control statistics were produ	2007, unless otherw	unless otherwise noted)							
October-2019 round robins. T	he number of resu	lts used to certify each analy	te is Antimony	2.3	Fe	28.1			
shown in the table above.			Arsenic	173.5	SiO ₂	18.93			
			Barium	<50	Al ₂ O ₃	4.69			
Material Description			Bromine	<0.5	TiO ₂	0.26			
This material is described as a Zinc Sulphide Ore.			Cadmium	70	MnO	0.1			
			Caesium	1.6	CaO	0.83			
			Calcium (%)	nr	Р	0.021			
Colour Designation (ISCC-NBS, SP440)			Cerium	20.5	S	21.84			
This material is olive gray in o	colour.		Chromium	<20	MgO	3.76			
			Cobalt	287.5	K ₂ O	0.22			
<u>Usage</u>			Europium	0.4	Na ₂ O	0.23			
This product is for use in the mining industry as a reference material for			,	189.5	LOI1000	27.8			
monitoring and testing the acc	curacy of laborator	y assaying.	Hafnium	1					
			Iridium (ppb)	<50	Neutron Act				
Preparation and Packaging			Iron (%)	31.4	Analyses ar				
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry			,	6.5	•				
material is then pulverised to better than 75 micron (nominal mean of 45 micron)				0.2					
using an air classifier. The material is then homogenised and stored in a sealed,				nr	indicative only. These are provided for matrix				
stable container ready for fina	ıı packagıng.		Molybdenum	<1					
Matariala ana atatistia - Ur		then medicaned into 1991	Neodymium heat Nickel	nr	identification	n			
Materials are statistically sar	•			53.5	purposes.				
sealed, air tight, plastic pulp p					India Not Da	oortod			
for distribution. All packaging			alion Rubidium	<11	'nr': Not Rep	ported			

from outside sources during shipment, use and storage.

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.

This product remains stable in its original packaging, away from direct sunlight.

Material Safety

This product is not hazardous and non-toxic.

	Analysis Resul	rusion / XRF (%)				
unless otherwise noted)						
	Antimony	2.3	Fe	28.1		
	Arsenic	173.5	SiO ₂	18.93		
	Barium	<50	Al ₂ O ₃	4.69		
	Bromine	<0.5	TiO ₂	0.26		
	Cadmium	70	MnO	0.1		
	Caesium	1.6	CaO	0.83		
	Calcium (%)	nr	Р	0.021		
	Cerium	20.5	S	21.84		
	Chromium	<20	MgO	3.76		
	Cobalt	287.5	K ₂ O	0.22		
	Europium	0.4	Na ₂ O	0.23		
	Gold (ppb)	189.5	LOI1000	27.8		
	Hafnium	1				
	Iridium (ppb)	<50	Neutron Act	ivation		
	Iron (%)	31.4	Analyses ar	lyses and Fusion /		
	Lanthanum	6.5	XRF Analyses are			
	Lutetium	0.2	single results and are			
	Mercury	nr	indicative only. These			
	Molybdenum	<1	are provided for matrix			
	Neodymium	nr	identification			
	Nickel	53.5	purposes.			
	Potassium (%)	nr				
	Rubidium	<11	'nr': Not Rep	orted		
	Samarium	2.3				
	Scandium	10.75				
	Selenium	210.5				
	Silver	6.35				
	Sodium (%)	0.142				
	Strontium	nr				
	Tantalum	<0.5				
	Tellurium	<13				
	Terbium	<0.5				
	Thorium	1				
	Tin	<100				
	Tungsten	<2				
	Uranium	1.75				
	Ytterbium	1.2				
	Zinc	17250				
	Zirconium	<200				

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