

Certified Manganese Reference Material - GMN-03

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Al ₂ O ₃	%	1.869	0.023	50	+/- 0.008
CaO	%	0.301	0.009	49	+/- 0.0031
As	%	0.0062			
Cr	%	0.0019			
Cu	%	0.0124	0.0048	44	+/- 0.0016
Ni	%	0.0176	0.0091	34	+/- 0.0031
Cl	%	0.0072	0.0023	33	+/- 0.0008
Pb	%	0.0035			
S	%	0.0104	0.0012	39	+/- 0.0004
Fe	%	8.231	0.082	50	+/- 0.028
K ₂ O	%	1.011	0.018	50	+/- 0.006
MgO	%	0.297	0.02	50	+/- 0.007
MnO	%	57.13	0.21	50	+/- 0.07
Na ₂ O	%	0.06	0.011	39	+/- 0.004
P ₂ O ₅	%	0.3722	0.0071	50	+/- 0.0024
V ₂ O ₅	%	0.0149	0.0069	47	+/- 0.0024
Zn	%	0.0183	0.0048	40	+/- 0.0016
SiO ₂	%	10.39	0.14	49	+/- 0.05
TiO ₂	%	0.0478	0.0051	50	+/- 0.0017
SnO ₂	%	0.0057			
SrO	%	0.079	0.0066	30	+/- 0.0023
LOI	%	11.456	0.083	39	+/- 0.029
U	%	0.007			
W	%	0.01			

Control Statistic Details

Control values for this material were determined during a certification program.

Certification Date

This material was certified with the above values on:

6/09/2011

Source Material

Prior to homogenisation and testing, this material was sourced from
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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

10A Marsh Close, O'Connor
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Website <http://www.geostats.com.au>

<p>GEOSTATS PTY LTD</p> <p>Mining Industry Consultants</p> <p>Reference Material Manufacture and Sales</p>

This certified reference material was dried in an oven for a minimum of 8 hours at 120C. The dry material was pulverised in an automated LM5 pulveriser and then homogenised in a vee-blender. The material is then packaged into 10g plastic packets, ready for shipment.

Certification Testwork

This certified reference material was tested in a dedicated certification program. 10 samples were sent to 5 laboratories for XRF analyses. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.