

DATA SHEET: AN37 – MAGNESITE CHEMICAL ANALYSIS

v2 October 2012

The main chemical analysis was carried out in quadruplicate by Lucideon, a Laboratory Accredited to EN ISO/IEC 17025 by UKAS according to XRF Standard BS EN ISO12677: 2003. In some cases, the results correlated with earlier "wet" chemical data. In this case a mean was taken and the result marked with an asterisk*. The B₂O₃ was determined in triplicate by ICP using BSEN21078: 2007.

Constituent	Formula	Mean	SD
		Wt %	
Silicon Dioxide	SiO ₂	1.39	0.01
Titanium Dioxide	TiO ₂	0.03	0.01
Alumina	Al ₂ O ₃	1.06	0.01
Iron (III) Oxide	Fe ₂ O ₃	1.80	0.05
Calcium Oxide	CaO	1.46	0.01
Magnesium Oxide	MgO	94.00*	0.04
Potassium Oxide	K ₂ O	<0.01*	
Sodium Oxide	Na ₂ O	<0.05*	
Phosphorus Pentoxide	P ₂ O ₅	0.02	0.01
Chromium Oxide	Cr ₂ O ₃	0.005*	0.001
Manganese Oxide	Mn ₃ O ₄	0.12*	0.01
Boric Oxide	B ₂ O ₃	0.09	0.016
Total		99.98	0.01