

DATA SHEET: AN36 – 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	0.48*	0.01
Titanium Dioxide	TiO ₂	0.01*	0.01
Alumina	Al ₂ O ₃	0.42	0.01
Iron (III) Oxide	Fe ₂ O ₃	4.66	0.03
Calcium Oxide	CaO	0.94*	0.01
Magnesium Oxide	MgO	93.30*	0.04
Potassium Oxide	K ₂ O	<0.01	
Sodium Oxide	Na ₂ O	<0.05	
Phosphorus Pentoxide	P ₂ O ₅	0.008	0.003
Chromium Oxide	Cr ₂ O ₃	0.004	0.001
Manganese Oxide	Mn ₃ O ₄	0.11*	0.01
Boric Oxide	B ₂ O ₃	0.09	0.016
Total		100.02	0.05