

# 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 B<sub>2</sub>O<sub>3</sub> was determined in triplicate by ICP using BSEN21078: 2007.

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