

CerMag Ultra 9

CerMag Ultra 9 is an encapsulated MgO with an extremely fine particle size distribution. This ceramic encapsulation reduces the rate of hydration and protects the MgO from physical abrasion during customer processing ensuring reproducible results.

The fine particle size leads to significantly increased compressive strengths in ceramic products, giving options to reduce thickness or lower firing temperatures. This material has been specifically developed and produced for the Technical Ceramic industry with closely controlled chemistry (ensuring optimum ceramic and electrical properties). Batches are controlled to ensure constant levels of particle size distribution and hence controlled reactivity.

Typical Particle Size Distribution

Particle size distributions can be varied at will and under close control using Malvern Mastersizer 2000

d_{90} Average = ca. 28 microns

d_{50} Average = ca. 6 microns

This range of particle size is controlled by the type of reactivity or extrusion characteristics required by the customer.

Typical Chemical Analysis

Oxide	%
SiO ₂	8.00
Al ₂ O ₃	0.60
Fe ₂ O ₃	0.10
CaO	0.80
B ₂ O ₃	0.005
MgO	90.0

Physical Properties

Fired Colour: Off white/cream

Bulk Density: Before micronisation is between 3.45 and 3.53 gcm⁻³

Melting Point: Greater than 2700°C

Surface Area (BET) Typically 1m²g⁻¹

Packaging Now available, where required, in totally heat-sealed plastic 25 kg sacks.

Options: Many other grades of CerMag are available. Please request further details.



Cermatco Limited
An ISO 9001:2008 Company

Cooting Road,
Aylesham,
Kent CT3 3EP
United Kingdom.

Tel:+44-1304-842222 Fax:+44-1304-842434 Email: sales@cermatco.com

Distributed in North America by
Pred Materials International, Inc.
60 East 42nd Street, Suite 1456
New York, NY 10165 USA
Tel: 212-286-0068 Fax: 212-286-0072
e: steve@predmaterials.com
i: www.predmaterials.com