

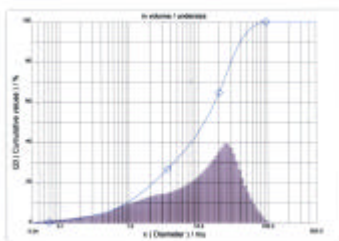
CerMag FC - Cer Range

Electrofused Magnesia derived from an optimum blend of synthetic seawater derived magnesia and natural Magnesite.

These materials has been specifically developed and produced for the Technical Ceramic industry with closely controlled parameters of chemistry and micronisation. Batches are controlled to ensure constant levels of particle size distribution and hence controlled reactivity. The range of chemistries is reflected in the packing density in extruded ceramics and hence the final electrical properties. The range is designed to achieve a selection of CaO:SiO₂ ratios for extruded and crushable ceramics.

Typical Particle Size Distribution

Particle size distributions can be varied at will and under close control using techniques with the Cilas Laser Particle Size Analyser 1064L.



d₉₀ Average = ca. between 40 and 70 microns

d₅₀ Average = ca. between 8 and 15 microns

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

Typical Chemical Analysis

Oxide	CerMag FC-CerXHS	CerMag FC-CerHS	CerMag FC-Cer	CerMag FC-CerW
SiO ₂	2.0	1.4	0.2	1.65
CaO	1.2	0.96	0.8	0.8
Al ₂ O ₃	1.0	0.6	0.3	0.3
Fe ₂ O ₃	0.1	0.1	0.1	0.08
MgO	96.0	97.2	98.8	97.0
B-ppm	<5	<5	<5	<5

Increasing whiteness

Physical Properties

Fired Colour: Off white/cream to white

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

Activity



(Citric Acid reactivity method at constant temperature)

Range of values from 180 to 230 seconds.

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

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



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