



Cermatpro CerMag FC
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Data Sheet

CerMag FC

Electrofused Magnesia derived from an optimum blend of synthetic seawater derived magnesia and natural Magnesite. This material has been specially developed and produced for the Dental Investment and Technical Ceramics industries with closely controlled parameters of chemistry and micronisation.

Physical Properties	
Colour	Off white/cream
Bulk density	3.45 – 3.53 gcm ⁻³ *
Powder Bulk Density (tapped)	2 – 2.2 gcm ⁻³
Melting Point	>2700°C
Surface Area	Typically 1m ² g ⁻¹
Reactivity	0.5 – 15mins typically
Expansion (with CermaDent MAP)	0.4 – 4% (dependent on grade required)

*before micronisation

Chemical Analysis

Please note this data is not a specification
Typical analysis made using XRF with MgO determined by difference

Oxide	%
SiO ₂	0.20
Al ₂ O ₃	0.10
Fe ₂ O ₃	0.10
CaO	0.80
MgO	98.80
B ₂ O ₃	0.005

Typical Particle Size Distributions

d₉₀ average = 40 - 80microns
d₅₀ average = 10 – 25microns

All size gradings are available with laser particle size controls.
Many other size gradings also available.

Packaging

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

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