

C e r M a g S M 2

Stable Magnesia
derived from seawater
derived magnesia and
natural Magnesite.
SM-2 has been hard
burned (sintered) at
high temperature to
ensure thermal stability.

Refractory properties
are not as high as with
Electrofused material
but generally suitable
for most metal and alloy
casting techniques.

This material has been
derived for Dental and
Jewellery Investment
formulations with
closely controlled
parameters of
chemistry and
micronisation.

Typical Particle Size Distribution

(See separate data for
particles size and
reactivity)

100% = less than 70
micron

d_{90} Average = ca. 40 - 50
microns

d_{50} Average = ca. 10 - 15
microns

Analysed by Cilas
Laser Particle Size
Analyser

(Other size distributions are available and subject to the
same degree of control)

Typical Chemical Analysis

Oxide	%
SiO ₂	0,04
Al ₂ O ₃	0,10
Fe ₂ O ₃	0,10
CaO	0,65
B ₂ O ₃	0,005
MgO	99.0

Physical Properties

Fired Colour: Off white/cream

Bulk Density

Before micronisation is between 3.42 and 3.45gcm⁻³

Melting Point: Greater than 2000°C

Surface Area (BET)

Typically 1m²g⁻¹

Reactivity

Range in reactivity defined from our CerMag SM2-SF
at 0.5 minutes through to our CerMag SM2-MS at 15
minutes. All reactivities are available within this range

Chemical Expansion

Controlled chemical expansions with our CermaDent
range of stabilised monoammonium phosphate.



Cermatco Limited

9002 Company

An ISO