



CerMag FS range
Magnesia/Alumina
Spinel
Schmelzspinell

A high quality range from alumina-rich to magnesia-rich Spinel, produced by electrofusion of seawater periclase and Bayer process calcined alumina. Applications in the production of steel, glass, cement and ceramic refractories.

Increasing use in the production of technical ceramic shapes with matching of thermal expansion properties where appropriate.

Applications also include use in moulding systems for Titanium casting.

Available in a range of alumina contents from 30 through to 70%.

Major phases identified by X-Ray Diffraction as magnesia-alumina spinel with increasing free-periclase as the MgO increases. Ensures complete control of the chemistry and physical properties promoting complete control of the final ceramic system. Non-carcinogenic Cr₂O₃ replacement.

Standard refractory sizes are:

- 8 - 5 mm
- 5 - 3 mm 45µ
- 3 - 1.0 mm
- 1.0 - 0 mm
- 0.5 mm
- 0.15 mm
- 0.08 mm

Chemical Analysis

	CerMag FS	CerMag FS67
	%	%
SiO ₂	0.10	0.10
Al ₂ O ₃	72.0	67.0
Fe ₂ O ₃	0.06	0.20
CaO	0.27	0.3
MgO	27.0	32.0

Free metallic iron levels are below 0.02% (lower for many size distributions)

General Physical Properties

Bulk Density	3.50 g.cm⁻³
Apparent Porosity	2.5 %
Water Absorption	1.0%

Specials

Micronised versions in the ranges 20, 10 and 5 microns also available.

Complete formulations of Fused Spinel are available providing you with a cost-effective controlled mix.

High purity version available for technical ceramics and other demanding applications.



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