

FUSED ALUMINA-MAGNESIA SPINEL

Product Information



Fused Spinel

Fused Alumina-Magnesia Spinel is produced from high purity powdered magnesium and Alumina powder through large-scale high-temperature electric arc furnace at approx. 2,800°C.

It is characterized by has very large crystals, high density, good appearance and color, excellent corrosion resistance, good thermal shock resistance and good hot strength.



Data Sheet

Color	:	White or Grey
Chemical Formula	:	MgAl ₂ O ₄
Melting Point	:	2135°C
Hardness	:	Mohs 7.5-8
Refractoriness	:	1900°C
Specific Gravity	:	3.55 g/cm ³
Apparent Porosity	:	3 %
Water Absorption	:	1 %

Chemical Composition

We offer four types Fused Spinel with different levels of Al₂O₃ content as follows:

Types	AL ₂ O ₃ (%)	MgO(%)	CaO(%)	SiO ₂ (%)	Fe ₂ O ₃ (%)	Na ₂ O	Bulk Density (g/cm ³)
SP-AM65	63 – 68	31 – 36	≤0.70	≤0.40	≤0.40	≤0.40	≥3.3
SP-AM70	72– 76	22 – 27	≤0.60	≤0.30	≤0.30	≤0.40	≥3.4
SP-AM85	82 – 87	12 – 17	≤0.50	≤0.15	≤0.15	≤0.40	≥3.5
SP-AM90	88 – 92	8 – 12	≤0.40	≤0.10	≤0.10	≤0.30	≥3.5

*Custom Chemistry is available upon request.

Grits and Sizes

We offer Fused Spinel in Macro and fine powder complying with the current FEPA / JIS / ANSI sieve standards.

For Refractories Application:

Macro sizes : 0-1mm/0.5-1 mm / 1-3mm/ / 3-5mm/5-8mm/0-10mm/0-25mm...

Fine powder:

0-0.1mm / 0-0.2 mm/0-0.35mm /0-0.5mm/0.1-0.5mm/0.2-0.5mm

-100mesh, -200mesh, -325mesh..

Noted:Custom sizes and shaped are also available upon request.

Packaging

Standard Packaging:

- Big bags(1000kgs , 1250kgs, 1350kgs) with or without pallets;

- 20 or 25kg plastic.or paper bags, with or without pallets.

*Custom Packaging is available upon request.

Application

-It is widely used for refractory products applications, such as steel-making electric furnace roofs, converter and ladle, large cement rotary kiln;

-Producing refractory materials used for the sinter and transit zones of rotary furnaces in the cement industry, for the arches of electric arc furnaces, for the refractory lining of high frequency furnaces, and various kinds of torpedo ladles and other ladles used in the steel industry.



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