

# 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 high temperature.

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



### Physical Properties

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

### Chemical Composition

We offer four types Fused Spinel with different levels of Al<sub>2</sub>O<sub>3</sub> content as follows:

Types	AL <sub>2</sub> O <sub>3</sub> (%)	MgO(%)	CaO(%)	SiO <sub>2</sub> (%)	Fe <sub>2</sub> O <sub>3</sub> (%)	Na <sub>2</sub> O	Bulk Density (g/cm <sup>3</sup> )
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.

### Available Grit 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, 0-0.5mm, 0.1-0.5mm, 0.2-0.5mm

-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 electric arc furnace roofs, converter and ladle, large cement rotary kiln; refractory lining of high frequency furnaces, and various kinds of torpedo ladles and other ladles used in the steel industry.

-Making high grade magnesia-alumina bricks, magnesia-alumina castable, sliding nozzles, lining bricks for ladle, slide plates, nozzle blocks and roof bricks.



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