

# FUSED MULLITE

## Product Information



### Fused Mullite

Fused Mullite is made of high purity alumina powder and silica sand fusing in electric arc furnaces at high temperature. The result is needle-like crystal grains form and has great features as following:

- ◆ Low thermal expansion
- ◆ Good chemical stability
- ◆ Excellent thermo-mechanical stability
- ◆ Excellent thermal shock and corrosion resistance
- ◆ Low porosity
- ◆ Comparatively lightweight
- ◆ Oxidation resistance
- ◆ Resistance to slag attack at high temperatures



### Physical Properties

Color	:	White or Grey
Refractoriness	:	1830°C
Specific Gravity	:	3.15g/cm <sup>3</sup> Min
3Al <sub>2</sub> O <sub>3</sub> .2SiO <sub>2</sub> Phase	:	95% min
Glassy Phase	:	5 %Max
Porosity	:	6 %
Linear expansion coefficient (1/°C)	:	-6.0×10 <sup>-6</sup>

### Chemical Composition

We offers two products with different levels of Al<sub>2</sub>O<sub>3</sub> : FM-70(70% AL), FM-60(60% AL)

Types&Grades	Items	Al <sub>2</sub> O <sub>3</sub> (%)	SiO <sub>2</sub> (%)	Fe <sub>2</sub> O <sub>3</sub> (%)	K <sub>2</sub> O+Na <sub>2</sub> O(%)	CaO+MgO(%)
FM-70	Guarantee Value	70-77%	22-29%	0.10% max	0.40%max	0.40% max
	Typical Value	74.80%	24.06%	0.08%max	0.16%max	0.08%max
FM-60	Guarantee Value	63-70%	25-35%	0.30% max	0.50%max	0.60%max
	Typical Value	65.4%	33.1%	0.21%max	0.38%max	0.40%max

Noted :Custom chemistry is available upon request.

## Available Grit Sizes

We manufactured Fused Mullite under FEPA standard.

For Refractories Application:

Macro sizes : 0-0.1 mm, 0-0.5 mm, 0-1 mm, 0.5-1 mm, 1-3mm, 3-5 mm...

Fine powder:-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.

Noted : Custom Packaging is available upon request.

## Application

- Ladles spark plug bodies
- Refractories for glass and steel industries
- High purity Mullite blocks, used in hot wind furnace in steel industry.
- Ceramic kiln and petrochemical industry
- Lining bricks in glass kiln
- Glass contact refractories
- Kiln furniture
- Investment casting shell building and high-end ceramics.



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