

Fused Mullite

Description: Fused Mullite is made from alumina powder and high-quality silica sand, melted at high temperatures in an electric arc furnace. It is grayish-white, forms needle-like crystals, and has high bending strength.

It handles sudden temperature changes very well, expands evenly when heated, stays strong under heavy loads at high heat, and resists chemical corrosion and wear. Because of these advantages, it is widely used in high-temperature industrial bricks and kiln tools, including blast furnace bricks, glass furnace linings, hot blast stoves, and tunnel kiln pusher plates and saggars. White fused-mullite grades require acid-washed raw materials.

Chemical Composition (%)

Parameter	FM
Al ₂ O ₃	72–77%
SiO ₂	23–29%
Fe ₂ O ₃	≤ 0.1%
R ₂ O (Alkali Metal Oxides)	≤ 0.5%
RO (Alkaline Earth Metal Oxides)	≤ 0.3%

Physical Properties

Parameter	FM
Mullite Phase Content	≥ 95%
Glass Phase Content	≤ 5%
Linear Expansion Coefficient (1/°C)	~6.0 × 10 ⁻⁶
Real Density (g/cm ³)	≥ 3.2
Refractoriness (°C)	≥ 1850°C

Size & Granularity

Grain Size of Section Sand (mm)	0–1 mm / 1–3 mm / 3–5 mm
Powder (mesh)	0–325 mesh / 0–200 mesh

Product Information

Size	0–1 / 1–3 / 3–5 mm; mesh grades on request.
Packing	In 1.00, 1.25 or 1.35 MT bulk bags, or as requested.
Origin	Henan Province, China.