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Electric Smelting Mullite



Brief introduction: fused mullite is a kind of high-grade refractory raw material, which is synthesized at high temperature in electric arc furnace with high purity. Mullite crystal is well developed, and the product quality reaches the level of similar international products. With high creep resistance and excellent thermal shock resistance, it is a high-grade raw material for manufacturing high-grade refractory bricks, toughened mullite ceramic products and unshaped refractory products

1,Main performance parameters of Electric Smelting Mullite

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	Na ₂ O	B.D	Apparent porosity	Refractorine ss
%	%	%	%	g/cm ³	%	°C
72-73.5	22-29	0.05-0.10	≤0.30	≥3.0	3-5	≥1850

2,Product description

High purity fused mullite is a high-grade refractory raw material synthesized by high-purity raw materials at high temperature in the electric arc furnace. The product after electrofusion is white gray and massive. After high-temperature sintering, the product is white, and the physical and chemical indexes of the product remain unchanged

High purity, low Fe₂O₃ and other impurities, low apparent porosity and high density. It has high creep resistance and thermal shock resistance. It is an ideal raw material for manufacturing low Japanese refractory bricks, torpedo lining bricks and high-temperature kiln refractory bricks. It is also a high-grade refractory raw material for producing toughened mullite ceramic products and unshaped refractory products

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The high-purity fused mullite is light gray, which is due to the presence of metallic silicon and a small amount of iron in the frit, and a small amount of SiO₂ is enclosed in the frit due to rapid cooling and rapid surface solidification, making the mullite frit colored. Then it is fired above 1480 °C, and the high-purity fused mullite becomes white

Compared with sintered mullite, high-purity fused mullite has better high-temperature mechanical properties and corrosion resistance

3, Main characteristics of fused mullite

Compared with sintered mullite, fused mullite has the following main characteristics

- 1) The product has high purity and low Fe₂O₃ and other impurities
- 2) Good compactness, high density and low porosity
- 3) Good creep resistance and thermal shock resistance
- 4) High temperature bending strength, high compressive strength
- 5) Good corrosion resistance

4, Main purpose

It can be used as an ideal raw material for producing low creep refractory bricks, high-grade kiln furniture bricks and high-grade unshaped refractory products

5, Good feedback of product use effect, the products have been exported to South Korea, Japan, Pakistan

6, We are a professional supplier, who can provide customers with free product technology, use and other issues

Do you want to find a professional supplier of Electric Smelting Mullite Product?

Do you want to find a stable and credible supplier?

Then please contact with us

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