Silica Mullite Brick 1650 Furnace Refractory Bricks For Kiln Wear Resistance

Our Product Introduction

Basic Information

- Place of Origin: Zhengzhou ,China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: RSAZM-1650, RSAZM-1680
- Minimum Order Quantity: 1 Ton
- Price: 200-800USD
- Packaging Details: Packed on wooden pallets, with water-proof cover, and tightened with plastic/steel bandages
- Delivery Time: 10-20 Days
- Payment Terms: TT; L/C
- Supply Ability: 2000 tons/month

Product Specification

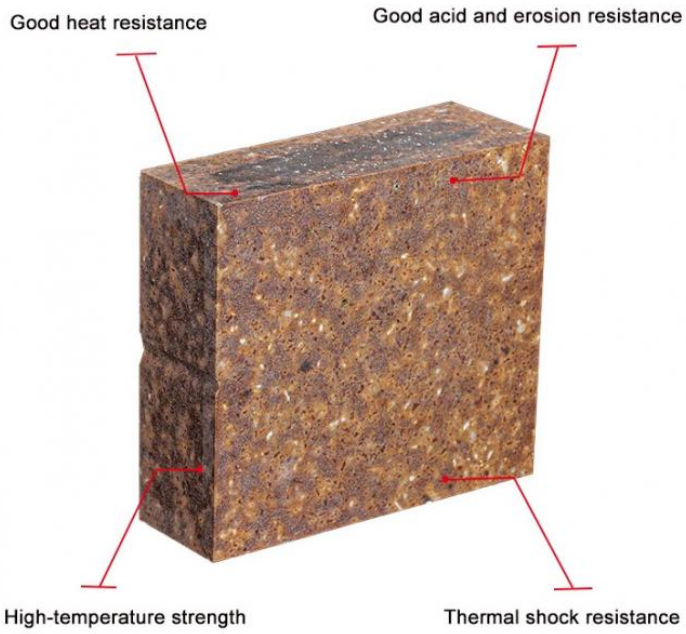
- Abrasion Resistance: High
- Bulk Density: High, Medium, Low
- Compressive Strength: 50-70MPa
- Corrosion Resistance: High
- Density: 2.3g/cm3
- Material: Fireclay
- Moisture Content: ≤2%
- Origin: China
- Refractoriness: 1580-1750
- Softening Point: High
- Softening Temperature: High/Medium/Low
- Temperature: High
- Thermal Conductivity: 1.3-1.5W/m·K
- True Density: ≤2.33 G/cm3
- Usage: Refractory Lining

More Images

Our Product Introduction

Product Description

Low Price High Quality Silica-Mullite Brick 1650 Furnace Refractory Brick For Kiln And Furnace
Product Description of Silicon Carbide Mullite Brick in Cement Kiln
Silica mullite Brick azm 1650 is a kind of fired brick with mullite (3al2o3.2sio2) and silicon carbide (SIC) as the main minerals. It has the advantages of high temperature resistance of mullite, wear resistance, corrosion resistance and good thermal conductivity of silicon carbide



Product Advantages of Silica Mullite Brick For Cement Kiln Transition Zone:

1. High load softness and excellent high temperature resistance (the actual test value of the load softening temperature is stable above 1680 ，which has been greatly improved on the basis of silica-molecular bricks, and is comparable to magnesia-aluminum spinel bricks.

2. High strength, wear resistance, not easy to spall and corrode (the actual test value of its strength is stable above 160MPa, which is more than 3 times the strength of spinel bricks. The strength is increased, and it is not easy to be damaged during handling and can be fully improved. Its wear resistance, so it is very suitable for use at 2-3 meters from the kiln mouth).

3. Low thermal conductivity and good thermal insulation effect (the performance and use of magnesia-aluminum spinel bricks, the thermal conductivity of silicon-moulded bricks is too large, resulting in higher temperatures in simplified form; silica mullite 1650 bricks are still high-aluminum-silicon carbide The characteristics of the product and the material itself determine its lower thermal conductivity. In the same period, the temperature can be reduced by more than 50)

4. Strong flexibility and excellent thermal shock resistance (its good thermal shock stability can fully adapt to the environmental requirements of frequent fluctuations in the temperature of the transition zone)

5. The density is moderate and the simplified load is reduced (the volume density of the silicon-molded red brick is more than 8% lower than that of the magnesia-aluminum spinel brick, which leads to a reduction of the simplified load of the silicon-molded red brick by more than 8% within the unit length of the same kiln type)

6. The price of silica mullite 1650 bricks is also preferential to that of magnesia alumina spinel brick, so silico red is used in the transition zone of rotary kiln, which is indeed economical and applicable.

Silica mullite1650 Brick For Cement Kiln Transition Zone

The temperature of the brick surface in the transition zone of cement rotary kiln is about 1 400 . The temperature of the preheating zone and cooling zone is lower than that of the transition zone. That is, the burning zone is protected by the kiln skin, and the temperature of the brick surface is not high.

The starting temperature of brick softening under load is above 1500 , especially the product structure is dense, composed of high-hardness minerals, corundum, silicon carbide, mullite, with particularly good wear resistance, Silica mullite Brick azm 1650 is an ideal type of brick for the transition zone.

Compressive strength and load softening temperature are obviously higher than that of anti-stripping high alumina bricks. Its thermal shock stability, corrosion resistance, wear resistance, and thermal conductivity are not high, which are required by the process characteristics of the post transition zone. The life span is 1.5-2 times that of the anti-stripping brick. Good wear resistance is more suitable for cooling belts. The service life can reach more than two years, which is 3-5 times longer than the service life of high alumina bricks. Now, according to the use conditions of different sections of the rotary kiln, different grades of silica bricks with different properties have been applied.

In addition, the thermal conductivity of Silica mullite Brick azm 1650 s is lower than that of alkaline products, so the thermal insulation effect of silicon-modified bricks is better. Silica mullite Brick azm 1650 s are used in the secondary firing zone, transition zone, preheating zone, kiln tail, tertiary air duct, calciner, etc. of large rotary kilns. Compared with alkaline bricks, the surface temperature of the cylinder body is lowered by more than 100 .




Product Specification of Silicon Mullite Brick

Item	RSAZM-1650	RSA
AI2O3(%)≥	63	
SiO2+SiC(%)≥	35	
(%)≤Apparent Porosity	22	
(g/cm3)≥Bulk Density	2.50	2
(MPa)≥Cold Crushing Strength	85	
0.2MPa Softening temperature load degree T0.6( )	1600	1
Thermal shcok resistance(1100)water quenching cycle	10	
Refractoriness( )≥	1790	1
(1000)W/m.k Thermal conductivity	2.5	

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