High Standard Furnace Refractory Bricks Refractory Sintered Corundum Mullite Brick

Our Product Introduction

Basic Information

- Place of Origin: Zhengzhou ,China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: GMZ-88, GMZ-85, GMZ-80, GMZ-75
- Minimum Order Quantity: 1 Ton
- Price: 200-800 USD
- Packaging Details: packed on wooden pallets, with water-proof cover, and tightened with plastic/steel bandages
- Delivery Time: 20-30DAYS
- Payment Terms: TT; L/C
- Supply Ability: 2000tons /month

Product Specification

- Abrasion Resistance: High
- Chemical Resistance: High
- Color: White, Gray, Black, Etc.
- Compressive Strength: High
- Density: High
- Flexural Strength: High
- Heat Capacity: High
- Material: Clay, Alumina, Magnesia
- Porosity: Low
- Refractoriness: High
- Shape: Rectangular, Square, Circular, Etc.
- Size: Various Sizes Available
- Thermal Conductivity: Low
- Thermal Expansion: Low
- Thermal Shock Resistance: High

Our Product Introduction

Product Description

High Quality Standard Specifications Refractory Sintered Corundum Mullite Brick
Description of Sintered Corundum Mullite Brick

Sintered Corundum Mullite Brick is a type of refractory brick that is produced through a sintering process. It is made from a combination of high-purity corundum and mullite grains, which are carefully selected for their excellent thermal and mechanical properties.

The manufacturing process of sintered corundum mullite brick involves carefully proportioning the corundum and mullite raw materials, followed by high-temperature sintering at around 1600-1800°C. This process promotes the formation of strong chemical bonds between the raw materials, resulting in a dense and highly durable brick structure.

Corundum is a crystalline form of aluminum oxide (Al2O3) known for its exceptional hardness, high melting point, and chemical stability. Mullite, on the other hand, is a compound of aluminum oxide and silicon dioxide (Al2O3·SiO2), which exhibits excellent thermal shock resistance and high refractoriness.

Features of Sintered Corundum Mullite Brick

1.High temperature resistance
2.Excellent thermal shock resistance
3.Superior mechanical strength
4.Good chemical resistance
5.Low porosity

Application of Sintered Corundum Mullite Brick
Due to its excellent thermal and mechanical properties, sintered corundum mullite brick finds applications in a wide range of industries, including steel, non-ferrous metals, ceramics, petrochemicals, and glass manufacturing, where high-temperature processes and harsh operating conditions are present.

Parameter of Sintered Corundum Mullite Brick

Item	Index			
	GMZ-88	GMZ-85	GMZ-80	
Al_2O_3 %	≥88	≥85	≥80	
Fe_2O_3 %	≤0.6	≤0.8	≤1.0	
Apparent Porosity %	≤15	≤16	≤17	
Bulk Density g/cm^3	≥3.0	≥2.9	≥2.8	
Cold Crushing Strength MPa	≥125	≥110	≥100	
0.2Mpa Refractoriness Under Load	≥1700	≥1680	≥1660	
Permanent Linear Change Rate % 1500 ×2h	±0.1	±0.1	±0.2	
Thermal Shock Resistance Cycle 1100 Water Cooling	≥15	≥12	≥10	

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