1450°C Magnesite Refractory Bricks Magnesia Iron Spinel Brick For Cement Rotary Kiln Furnace

Our Product Introduction

Basic Information

- Place of Origin: Zhengzhou ,China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: Magnesia iron Spinel Brick, High toughness Magnesium Iron Spinel brick
- 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: 20-30DAYS
- Payment Terms: TT; L/C
- Supply Ability: 2000tons /month

Product Specification

- Application Temperature: ≤1450
- Chemical Composition: MgO≥90%
- Color: White
- Compressive Strength: ≥50MPa
- Density: 2.9-3.2g/cm3
- Linear Change Rate: ≤0.2%
- Material: Magnesite
- Package: Wooden Pallet
- Porosity: ≤20%
- Refractoriness: ≥1700
- Refractoriness Under Load: ≥1450
- Shape: Bricks
- Size: Standard
- Thermal Conductivity: Low
- Thermal Shock Resistance: Good

Our Product Introduction

Product Description

Magnesia Iron Spinel Brick For Cement Rotary Kiln Furnace

Introduction of magnesia iron spinel brick

Magnesia iron spinel bricks are a type of refractory material commonly used in high-temperature industrial applications. They are made from a combination of magnesia and iron oxide, which forms a unique crystal structure known as spinel. This composition provides the bricks with excellent thermal, chemical, and mechanical properties, making them suitable for various industrial processes.

Features of Magnesia iron spinel brick

Magnesia-iron spinel bricks have high thermomechanical properties and thermochemical properties in addition to the excellent kiln skin properties of magnesia-chrome bricks

Application of magnesia iron spinel brick

Magnesia iron spinel bricks are commonly used in high-temperature industrial processes such as steelmaking (BOF and EAF), copper smelting, glass tank furnaces, cement rotary kilns, petrochemical reforming furnaces, waste incineration plants, lime kilns, and various other applications involving extreme heat and chemical exposure. Their exceptional thermal and chemical resistance makes them ideal for lining furnaces, kilns, and reactors in these industries.

Parameters of Magnesia Iron Spinel Brick

Item	Index	
	Magnesia iron Spinel Brick	High toughness Magnesiun
MgO %	≥85	≥88
Fe_2O_3 %	5~7.5	5~6
Al_2O_3 %	3~5	4~7
Bulk density g/cm^3	≥3	≥2.9
Apparent porosity %	≤17	≤16
Cold Crushing Strength MPa	≥45	≥55
Thermal shock resistance cycle 1100 water cooling	≥6	≥8
0.2MPa Refractoriness under load	≥1600	≥1650
Thermal expansion rate % 1400	≤1.6	≤1.7
Thermal conductivity W/(m·K) 350±25	≤2.6	≤2.6

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