

## High Temperature Magnesite Refractory Bricks Spinel Cement Rotary Kiln Refractory Bricks

Our Product Introduction

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### Basic Information

- Place of Origin: Zhengzhou ,China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: MLJ-90, MLJ-85, MLJ-80, MLJ-75
- 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
- Supply Ability: 2000tons /month



### Product Specification

- Alkali Resistance: Good
- Bending Strength: 7-15 MPa
- Color: Gray
- Compressive Strength: 50-80 MPa
- Density: 3.2-3.6 G/cm3
- Material: Magnesite
- Melting Point: 1750-1800°C
- Porosity: 17-20%
- Refractoriness: 1700-1750°C
- Refractoriness Under Load: 1450-1500°C
- Shape: Bricks
- Softening Temperature: 1400-1450°C
- Thermal Conductivity: 0.2-0.3 W/mK
- Thermal Expansion Coefficient: 0.6-0.7 X 10-6/K

### Product Description

#### Description of High Temperature Resistance Refractory Magnesium Aluminum Spinel Brick For Cement Rotary Kiln

Magnesia-aluminum spinel bricks are high-grade alkaline refractory materials with periclase and spinel as the main minerals, which are sintered at high temperature. At the same time, specific mineralizers are added to directly combine the crystal phase particles of the product. It has the characteristics of high strength, excellent thermal shock stability and strong chemical corrosion resistance. It is mainly used in the upper and lower transition zones of cement rotary kilns and thermal kiln equipment that requires high temperature resistance and thermal shock resistance.

#### Features of Magnesia alumina spinel brick

1. Good thermal shock resistance, it will react with clinker when used, and then form a layer of calcium aluminate protective layer on the brick surface, making it difficult for liquid to penetrate. 2. Sintered spinel bricks are easy to hydrate and have high thermal conductivity, so the kiln drying temperature is higher than that of magnesia-chrome bricks when they are directly bonded. Pay attention to these problems when using them. Physical and chemical properties of magnesia-alumina spinel bricks: small thermal expansion, good thermal shock stability, stable chemical properties, and strong alkali slag resistance.

#### Application of Magnesia alumina spinel brick

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Magnesium-aluminum spinel bricks are widely used in cement rotary kilns, and are also used to make ladles, which greatly improve the corrosion resistance of steel plate linings, making them widely used in refractory materials for steelmaking. Outsourcing Presynthetic Spinel as Unshaped and Shaped High Purity Refractories

## Application industry



**Iron and steel**



**Cement**



**Chemical**



**Electric power**



**Electricity**



**Metallurgy**

Physical and chemical indicators of Magnesium Aluminum Refractory Brick:

| Item                                              | Index  |        |        |  |
|---------------------------------------------------|--------|--------|--------|--|
|                                                   | MLJ-90 | MLJ-85 | MLJ-80 |  |
| MgO %                                             | ≥90    | ≥85    | ≥80    |  |
| Al <sub>2</sub> O <sub>3</sub> %                  | 3~8    | 5~12   | 8~17   |  |
| Apparent porosity %                               | ≤17    | ≤17    | ≤16    |  |
| Bulk density g/cm <sup>3</sup>                    | ≥2.95  | ≥2.95  | ≥2.90  |  |
| Cold Crushing Strength MPa                        | ≥45    | ≥45    | ≥55    |  |
| 0.2MPa Refractoriness under load                  | ≥1700  |        |        |  |
| Thermal shock resistance cycle 1100 water cooling | ≥3     | ≥8     | ≥12    |  |



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