Neutral Refractory Materials Grade I High Alumina Bricks For Cement Rotary Kilns

Our Product Introduction

Basic Information

- Place of Origin: Zhengzhou, China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: Grade I High Alumina Brick
- 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: 20-30 Days
- Payment Terms: TT; L/C
- Supply Ability: 2000tons /month

Product Specification

- Highlight: **Neutral High Alumina Bricks**, **Cement Rotary Kilns High Alumina Bricks**, **Refractory High Alumina Bricks**

Our Product Introduction

Product Description

Product Description of Neutral Refractory Materials Grade I High Alumina Bricks For Cement Rotary Kilns

Grade I High Alumina Bricks are neutral refractory materials with an alumina content of no less than 75%. They are made from bauxite or other raw materials with high alumina content, shaped, and calcined. These bricks exhibit excellent thermal stability, a refractoriness exceeding 1770°C, and good slag resistance.

The production process for high alumina bricks is similar to that of multi-clinker clay bricks, with the key difference being a higher proportion of clinker in the mixture, reaching up to 90–95%. Before crushing, the clinker must be carefully graded, sorted, and screened to remove iron. The firing temperature is also higher; for Grade I and II high alumina bricks fired in a tunnel kiln, the temperature typically ranges from 1500–1600°C.

To enhance product quality, high alumina clinker is meticulously graded and stored before crushing. A combination of bauxite clinker and bonding clay is finely ground together during production.

Performance Characteristics of Grade I High Alumina Bricks:

Excellent high-temperature volume stability.
Superior thermal shock resistance.
High wear resistance.
Strong resistance to chemical corrosion.

Main Applications of Grade I High Alumina Bricks:
These high alumina refractory bricks are widely used in transition zones and preheaters of cement rotary kilns, as well as in other thermal equipment requiring exceptional thermal shock resistance.

Index	Grade I High Alumina B
Model	LZ-75
Al2O3 (%) ≥	75
Fe2O3 (%) ≤	2.5
Bulk Density (g/cm³) ≥	2.6
Cold Crushing Strength (MPa) ≥	70
Refractoriness Under Load (°C)	1510
Refractoriness (°C)	1790
Apparent Porosity (%) ≤	22
Linear Change Rate (%)	-0.3

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