

Factory Price Refractory High Alumina Brick Al₂O₃ Fire Resistant Brick For Blast And Smelting Furnace

Our Product Introduction

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Basic Information

- Place of Origin: Zhengzhou ,China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: RS-48, RS-55, RS-65, RS-75, RS-80
- 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

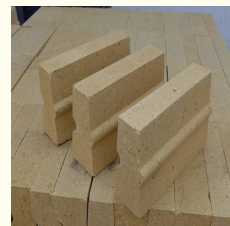


Product Specification

- Al₂O₃ Content: ≥48%
- Application Temperature: ≤1450
- Bulk Density: ≥2.2g/cm³
- Color: Red
- Compressive Strength: ≥60MPa
- Density: 2.2-2.4g/cm³
- Fe₂O₃ Content: ≤2.5%
- Material: High Alumina Refractory Brick
- Porosity: ≤20%
- Refractoriness: ≥1700
- Refractoriness Under Load: ≥1450
- Shape: Rectangle
- Size: Customized
- Thermal Conductivity: ≤1.1W/m.K
- Thermal Shock Resistance: Good



More Images



Our Product Introduction

Product Description

Description of Factory Price Refractory High Alumina Brick Al₂O₃ Fire Resistant Brick For Blast And Smelting Furnace

High alumina brick is an aluminum silicate refractory material with an Al₂O₃ content exceeding 48%. It is shaped and calcined using bauxite or other materials rich in alumina. It exhibits excellent thermal stability, with a refractory capability surpassing 1770 °C.

In China, High Alumina Bricks are categorized into three grades based on their Al₂O₃ content:

Grade I High Alumina Bricks contain over 75% Al₂O₃.

Grade II High Alumina Bricks have an Al₂O₃ content ranging from 60 to 75%.

Grade III High Alumina Bricks comprise 48 to 60% Al₂O₃ content.



Features of Al₂O₃ Fire Resistant Brick For Blast And Smelting Furnace

High Alumina Brick has properties of high refractoriness, high strength, good slag resistance, acid and erosion resistance, good thermal stability and so on.

Product Application of High Alumina Bricks

High Alumina Brick has properties of high refractoriness, high strength, good slag resistance, acid and erosion resistance, good thermal stability and so on.

1. Blast furnace, hot blast stove, electric furnace, ladle, tundish, heating furnace, refining furnace, reheating furnace, annealing furnace, reverberatory furnace, cupola furnace, open hearth furnace, rotary kiln.
2. Smelting furnace, refining furnace, reverberatory furnace, converter furnace.
3. Building materials industry: Cement kiln, glass kiln, ceramic kiln, lime kilns, kiln car, tunnel kiln.
4. Coke oven, circulating fluidized bed boiler, carbon roasting furnace, incinerators.
5. Petrochemical industry furnace, Plugs, nozzle bricks, etc. used in the pouring system.

Product Specification of High alumina brick

| Item | | Properties | | | |
|---------------------------------------|-----------|------------|-------|-------|------|
| | | RS-80 | RS-75 | RS-65 | RS-5 |
| Al ₂ O ₃ (%) | | 80 | ≥75 | ≥65 | ≥55 |
| Refractoriness (°C) | | ≥1790 | ≥1790 | ≥1790 | ≥177 |
| Bulk density (g/cm ³) | | 2.65 | 2.5 | 2.45 | 2.4 |
| Softening temperature under load (°C) | | 1530 | ≥1520 | ≥1500 | ≥147 |
| Reheating Linear changes Rate (%) | 1500°CX2H | 0.1 | 0.1 | 0.1 | 0.1 |
| | 1450°CX2H | -0.4 | -0.4 | -0.4 | -0.4 |
| Apparent porosity (%) | | 22 | ≤23 | ≤23 | ≤22 |
| Cold crushing strength (Mpa) | | 55 | ≥50 | ≥45 | ≥40 |



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