

Wear-Resistant High Alumina Bricks For Extreme Industrial Applications

Our Product Introduction

Basic Information

- Place of Origin: Zhengzhou, China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: Rongsheng
- 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: 10-20 Days
- Payment Terms: TT; L/C
- Supply Ability: 2000 tons /month



Product Specification

- Highlight: Extreme Industrial High Alumina Bricks, Wear Resistant High Alumina Bricks, Industrial High Alumina Bricks

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Product Description

Product Description of Wear-Resistant High Alumina Bricks For Extreme Industrial Applications

High alumina wear-resistant bricks refer to aluminosilicate refractory materials with an Al_2O_3 content of more than 48%. They are typically categorized into three grades:

Grade I: Al_2O_3 content $\geq 75\%$

Grade II: Al_2O_3 content 60%–75%

Grade III: Al_2O_3 content 48%–60%

They can also be classified based on their mineral composition into five types: low-mullite, mullite, mullite-corundum, corundum-mullite, and corundum. The main mineral components are corundum, mullite, and a glassy phase. The softening temperature under load for high alumina refractory bricks increases with the Al_2O_3 content.

High alumina wear-resistant bricks are widely used as checker bricks for regenerative furnaces, stoppers for pouring systems, and nozzle bricks. However, high alumina bricks are more expensive than fireclay bricks, so the latter should be used wherever they can meet the requirements.

Main Features of High Alumina Wear-Resistant Bricks:

Excellent resistance to wear, erosion, and corrosion

Cost-effective

Suitable for use wherever the required refractoriness is met, offering an economical alternative to more expensive mullite-corundum bricks

High alumina wear-resistant bricks can also be customized based on the operating conditions of lime kilns and waste incinerators. For example, the previously common T3 standard brick with a thickness of 75 mm was increased to 100 mm. This increased thickness reduces the number of layers, thereby lowering friction frequency and significantly extending the service life of the bricks.



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