

## Durable High Alumina Refractory Bricks Fireclay Bricks For Upper And Middle Parts Of Blast Furnaces

Our Product Introduction

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### Basic Information

- Place of Origin: Zhengzhou, China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: RSGL-75, RSGL-65, RSGL-55
- 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: 2000tons /month



### Product Specification

- Highlight: Durable High Alumina Refractory Bricks, Blast Furnaces High Alumina Refractory Bricks



Our Product Introduction

### Product Description

A blast furnace is the primary equipment for ironmaking, known for its advantages of high output, high productivity, and low cost, which are unmatched by other ironmaking methods. With advancements in the global steel industry, blast furnaces are evolving towards larger capacities, automation, and extended service life, incorporating new smelting technologies such as oxygen-enriched coal injection, high hot blast temperatures, and high-pressure furnace tops. These developments have significantly changed the working conditions of blast furnace linings, resulting in a noticeable reduction in their service life, typically only about 5-6 years. Particularly, the lower furnace body, as well as the belly and waist areas, experience even shorter service durations. To adapt to these advancements, refractory bricks for blast furnaces have also undergone considerable changes, with durable new types of refractory bricks gradually being applied, leading to an extended lifespan of the blast furnaces.

Based on the operational conditions and corrosion characteristics of blast furnace linings, the refractory bricks used need to have the following properties:

Excellent high-temperature performance, maintaining stability under prolonged high temperatures.  
 High strength at both ambient and high temperatures, along with good wear resistance.  
 High density, good thermal conductivity, low apparent porosity, and minimal shrinkage at high temperatures.  
 The ability to resist the severe erosion and abrasion caused by molten iron, slag, blast furnace gas, and dust under high temperatures and pressure.  
 Accurate dimensions to ensure that the brick joints meet the required specifications.  
 Currently, there are many types of refractory bricks for blast furnaces. Generally, high-quality fireclay bricks or high-alumina bricks are used for the upper and middle parts of the furnace body. Rongsheng Refractories has extensive experience in manufacturing high-quality fireclay bricks for blast furnaces.



#### Physical and Chemical Parameters of Rongsheng Blast Furnace High Alumina Series Refractory Bricks

Index	RSGL-75	RSGL-65
$\text{Al}_2\text{O}_3$ (%) $\geq$	75	65
$\text{Fe}_2\text{O}_3$ (%) $\leq$	2.0	2.0
Apparent Porosity (%) $\leq$	20	22
Bulk Density ( $\text{g}/\text{cm}^3$ ) $\geq$	2.5	2.4
Cold Crushing Strength (MPa) $\geq$	60	55
0.2MPa Refractoriness Under Load ( $^{\circ}\text{C}$ ) $\geq$	1500	1470
Permanent Linear Change Rate After Reheating ( $1500^{\circ}\text{C} \times 2\text{h}$ , %)	0 ~ -0.2	0 ~ -0.2
Refractoriness ( $^{\circ}\text{C}$ )	1790	1790



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