

## Chemical Resistance Refractory Bricks For Carbon Baking Furnace

Our Product Introduction

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### 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: 2000tons /month



### Product Specification

- Highlight: **Chemical Resistance Refractory Bricks, Carbon Baking Furnace Refractory Bricks**

### Product Description

#### Product Description of Rongsheng Refractory Factory Supply High Quality Refractory Bricks For Carbon Baking Furnace

Refractory bricks used in carbon baking furnaces play a crucial role in providing thermal insulation, structural integrity, and resistance to high temperatures and aggressive chemical environments. These bricks are specially designed to withstand the extreme conditions encountered during the production of carbon products, such as anodes and cathodes for aluminum smelting and other industries.

Our Product Introduction



#### Features of Refractory Bricks for Carbon Baking Furnaces

**High Thermal Resistance:** These bricks are capable of withstanding continuous exposure to high temperatures without deformation or failure.

**Chemical Stability:** Resistant to corrosion and chemical attack from alkalis, carbon, and other reactive substances present in the furnace environment.

**High Strength:** Ensures the structural stability of the furnace during operations, even under mechanical stress.

**Low Thermal Conductivity:** Helps in minimizing heat loss, ensuring energy efficiency during the baking process.

**Thermal Shock Resistance:** Ability to endure rapid temperature changes without cracking or spalling.

#### Common Types of Refractory Bricks for Carbon Baking Furnaces

##### Fireclay Bricks:

Made from high-quality fireclay with excellent thermal stability and wear resistance.

Cost-effective and suitable for general furnace lining applications.

##### High Alumina Bricks:

Contain a higher percentage of alumina, offering superior resistance to high temperatures and slag attack.

Suitable for areas with intense heat exposure.

##### Silicon Carbide Bricks:

Offer excellent thermal conductivity, making them ideal for heat dissipation in high-temperature zones.

Highly resistant to chemical corrosion and abrasion.

##### Graphite Refractory Bricks:

Composed of carbon and graphite, these bricks are highly resistant to oxidation and thermal stress.

Frequently used in the critical zones of the baking furnace.

##### Insulating Bricks:

Lightweight bricks designed for thermal insulation, reducing energy consumption and maintaining furnace efficiency.

#### Applications in Carbon Baking Furnaces

Refractory bricks are used in various areas of the carbon baking furnace, such as:

**Sidewalls:** To protect against high temperatures and chemical corrosion.

**Floor Linings:** To withstand mechanical wear and thermal stress from carbon blocks.

**Roof:** Ensuring heat containment and preventing structural degradation.

#### Carbon Baking Furnace Refractory Brick Technical Parameters

Project indicators	Value	Typical
Al <sub>2</sub> O <sub>3</sub> % ≥	40	40
Fe <sub>2</sub> O <sub>3</sub> % ≤	2.5	2.5
Bulk Density g/cm <sup>3</sup> ≥	2.15	2.15
Apparent porosity % ≤	22	22
Normal Temperature Pressure Resistance MPa ≥	29.4	29.4
Reburning Line Variation %		1400 × 2h -0.4 0.1
Refractoriness ≥	1730	1730
Load softening 0.2MPa	1350	1350

#### Why Choose Rongsheng Refractory High-Quality Refractory Bricks For Carbon Baking Furnaces?

1. Rongsheng Refractory has many years of technical expertise in producing refractory bricks specifically designed for carbon calcining furnaces and baking furnaces. The company is equipped with three fully automated production lines for shaped, unshaped products, and insulation materials.

##### The main production equipment includes:

Eight 400-ton presses

Six 315-ton presses

Five 750-type intensive mixers

Three fine powder grinders

Three double-roller crushers

One 128-meter tunnel kiln production line with an automatic temperature control system for a double-stage gas generator

Additionally, the company possesses a complete set of physical and chemical testing equipment and inspection systems for refractory materials and has passed the ISO 2000 quality management certification.

Rongsheng also maintains drawings for some special-shaped refractory bricks and has established long-term cooperative relationships with several large and medium-sized carbon plants.

2. Using high-quality refractory bricks in carbon baking furnaces ensures:

Enhanced furnace longevity.

Reduced maintenance costs.

Improved energy efficiency.  
Consistent product quality for baked carbon materials.  
The specifications and sizes of carbon baking furnace refractory bricks can be customized. If you are looking for reliable and durable refractory bricks for your carbon baking furnace, **Henan Rongsheng Refractory** offers a wide range of options tailored to your specific needs. Please feel free to Contact us for more information and customized solutions.

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