

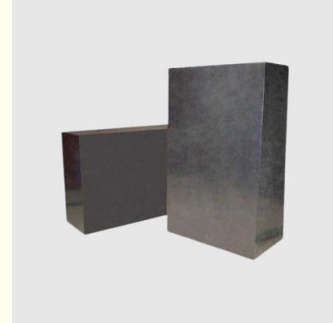
## Rongsheng Refractory Supply Alumina Carbon Bricks With Superior Performance For High-Temperature Kilns

Our Product Introduction

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### Basic Information

- Place of Origin: Zhengzhou, China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: RSAC-60
- 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: 10-20 Days
- Payment Terms: TT; L/C
- Supply Ability: 2000 tons/month

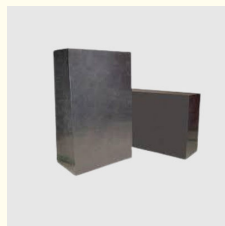


### Product Specification

- Fe<sub>2</sub>O<sub>3</sub> Content: ≤2%
- Chemical Resistance: High
- Water Absorption: ≤6%
- Packing: Wooden Pallets Or Cartons
- Resistance To Spalling: Good
- Thermal Conductivity: ≤1.3W/m-K
- Extended Kiln Life: Yes
- Compressive Strength: ≥50MPa
- Abrasion Resistance: Excellent
- Origin: China
- Thermal Expansion: High, Medium, Low
- Acid Resistance: ≥95%
- Cold Crushing Strength: ≥40 Mpa
- Thermal Shock Resistance: ≥25 Times
- Modle: As Required



### More Images



### Product Description

#### Introduction of Rongsheng Refractory Supply Alumina Carbon Bricks With Superior Performance For High-Temperature Kilns

Alumina Carbon Bricks of Rongsheng Refractory represent a class of high-performance refractory materials specifically engineered for use in the most demanding high-temperature industrial environments. These bricks combine the advantageous properties of high alumina and carbon to deliver exceptional thermal stability and durability, making them indispensable in metallurgical and other heavy industries.

#### Composition and Materials of Alumina Carbon Fire Bricks

Alumina Carbon Bricks are primarily composed of high-purity alumina (Al<sub>2</sub>O<sub>3</sub>) and carbonaceous materials such as graphite.

The typical composition includes:

Alumina (Al<sub>2</sub>O<sub>3</sub>): 60-85%

Carbon: 5-20%

Binders and Additives: Various organic and inorganic materials to enhance properties

The blend of these materials results in bricks that offer superior performance in extreme conditions.

#### Properties of Alumina-carbon Bricks

High Thermal Conductivity: The carbon content significantly improves the thermal conductivity, ensuring effective heat

Our Product Introduction

management.

**Thermal Shock Resistance:** These bricks exhibit excellent resistance to thermal cycling, making them ideal for applications with rapid temperature changes.

**Mechanical Strength:** High compressive strength and structural integrity even at elevated temperatures.

**Chemical Resistance:** Superior resistance to chemical attack from slags and corrosive environments.

#### Manufacturing Process

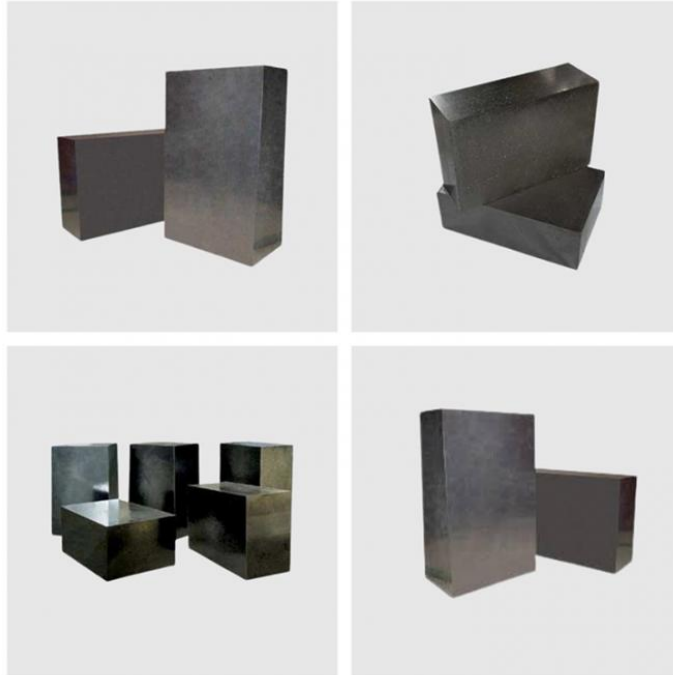
**Raw Material Preparation:** Selection of high-purity alumina and high-quality graphite.

**Mixing:** Precise mixing of alumina, carbon, binders, and additives.

**Shaping:** Using advanced forming techniques to achieve the desired brick shapes.

**Drying:** Controlled drying to remove moisture and enhance structural stability.

**Firing:** High-temperature firing to achieve final sintering and densification.



#### Product Applications

**Steelmaking:** Essential in electric arc furnaces (EAF), ladle furnaces, and basic oxygen furnaces (BOF).

**Non-Ferrous Metal Processing:** Used in furnaces for processing aluminum, copper, and other non-ferrous metals.

**Foundries:** Ideal for furnace linings and other high-wear areas in foundry operations.

**Chemical Plants:** Suitable for reactors and other equipment exposed to high temperatures and corrosive materials.

#### Product Advantages

**Longevity:** Extended service life reduces the frequency of refractory maintenance and replacement.

**Energy Efficiency:** High thermal conductivity enhances energy efficiency in high-temperature operations.

**Cost-Effective:** Durable and long-lasting, these bricks lower overall operational costs.

**Versatility:** Suitable for a wide range of high-temperature applications across various industries.

#### Product Parameters of Alumina Carbon Bricks from Rongsheng Refractory Factory

| Items   | RSAC-60 |
|---|---------|
| Al <sub>2</sub> O <sub>3</sub> ,% min                     | 60      |
| C,%min  | 12      |
| Apparent Porosity,%max                                    | 12      |
| Bulk Density,g/cm <sup>3</sup> .min                       | 2.8     |
| C.C. strength M/pa min                                    | 60      |
| Refractoriness under load (0.2Mpa) (min)                  | 1650    |
| Thermal Shock Resistance(1000 ,water quenching,cycle),min | 100     |

#### Quality Control

**Material Testing:** Rigorous testing of raw materials to ensure purity and consistency.

**Dimensional Accuracy:** Precision in manufacturing to meet exacting standards.

**Performance Testing:** Extensive testing under simulated operational conditions to verify performance metrics.

#### Installation and Maintenance

**Installation:** Follow best practices for installation, ensuring tight joints and proper alignment to maximize performance.

**Inspection:** Regular inspection and monitoring to detect and address wear or damage early.

**Repair:** Timely repair using compatible refractory materials to maintain the integrity of the lining.

#### Conclusion

Alumina Carbon Refractory Bricks offer an exceptional combination of thermal stability, mechanical strength, and chemical resistance, making them a vital component in high-temperature industrial applications. Their ability to withstand the harshest conditions ensures reliability and efficiency, contributing to the overall success and cost-effectiveness of industrial processes.

If you want to inquiry more information about Rongshengrefractory Bricks and their applications, please visit [Rongsheng Refractory's website](http://RongshengRefractory's website).



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