

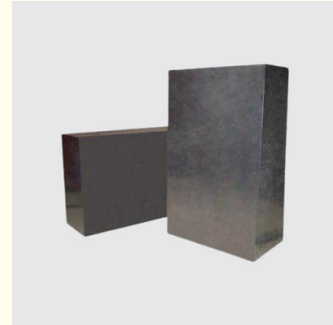
Rongsheng Refractory Supply Alumina Carbon Bricks With Superior Performance For High-Temperature Kilns

Our Product Introduction

for more products please visit us on bricksrefractory.com

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

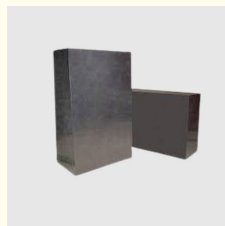
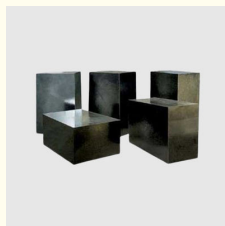


Product Specification

- Fe₂O₃ 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 (Al₂O₃) and carbonaceous materials such as graphite. The typical composition includes:

Alumina (Al₂O₃): 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

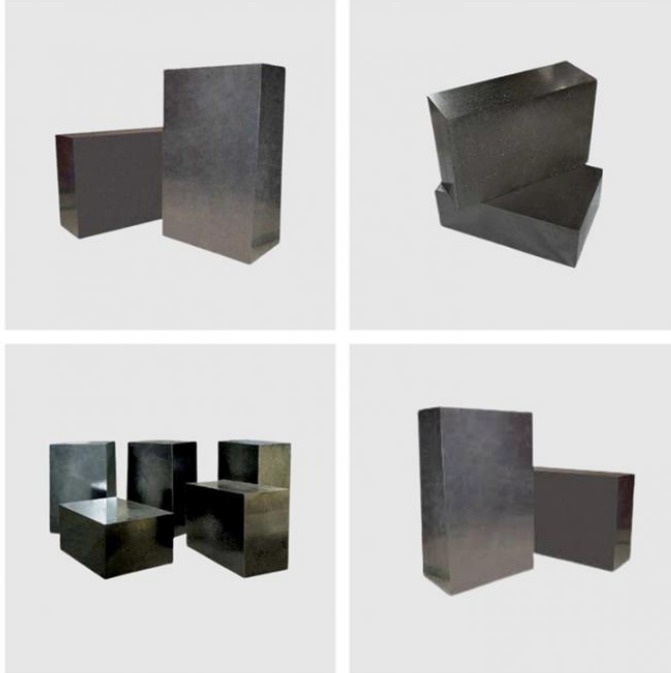
Raw Material Preparation: Selection of high-purity alumina and high-quality graphite.

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 ₂ O ₃ ,% min	60
C,%min	12
Apparent Porosity,%max	12
Bulk Density,g/cm ³ .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).



Henan Rongsheng Xinwei New Materials Research Institute Co., Ltd



+86-18538509097



Jackyhan2023@outlook.com



bricksrefractory.com

11th Floors, Building 6, China Central Electronic Commerce Port, Daxue Road, Zhengzhou, Henan, China