

Rongsheng Factory High Alumina Checker Refractory Bricks Suitable For **Various High-Temperature Applications**

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Our Product Introduction

Basic Information	
 Place of Origin: 	Zhengzhou, China
 Brand Name: 	Rongsheng Xinwei
 Certification: 	ISO9001
 Model Number: 	RS-48, RS-55, RS-65, RS-75, RS-80
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: 	20-30DAYS
 Payment Terms: 	TT; L/C
Supply Ability:	2000 tons/month

Product Specification

• Highlight:

Rongsheng Factory Checker Refractory Bricks. High Temperature Checker Refractory Bricks, High Alumina Checker Refractory Bricks



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Product Description

Product Description of Rongsheng Factory High Alumina Checker Refractory Bricks Suitable For Various High-

Temperature Applications High Alumina Checker Refractory Bricks are a type of brick used in high-temperature industrial applications. They are made from a high alumina content material, typically above 48% alumina oxide (Al2O3), which gives them excellent properties for withstanding extreme heat and harsh environments.

Physical and Chemical Properties of High Alumina Checker Refractory Bricks

High Temperature Resistance: Can withstand temperatures up to 1750°C (3182°F).
 Thermal Shock Resistance: Excellent ability to withstand rapid temperature changes without cracking.

- 3.Mechanical Strength: High compressive strength, making them durable under heavy loads. 4.Corrosion Resistance: Resistant to slag and chemical attack, especially from alkalis and acidic environments.

Prodcut Applications of High Alumina Checker Refractory Bricks Blast Furnaces: Used in hot blast stoves to preheat air blown into the blast furnace.

Regenerative Furnaces: Utilized in the regenerator of glass furnaces to store heat. Steel Industry: Employed in various high-temperature zones within steelmaking processes. Cement Kilns: Applied in areas where high thermal efficiency and durability are required.



Product Specification of High Alumina Checker Refractory Bricks

High Alumina Checker Firebrick Physical and Chemical Index:

Item		Properties					
		RS-80	RS-75	RS-65	R\$-{	55	RS-4
AI2O3 (%)		80	≥75	≥65	≥55	5	≥48
Refractoriness (°C)		≥1790	≥1790	≥1790	≥177	70	≥175
Bulk density (g/cm3)		2.65	2.5	2.45	2.4	1	2.3
Softening temperature under load (°C)		1530	≥1520	≥1500	≥147	70	≥142
ReheatingLinear Change Rate (%)	1500°CX 2H	0.1	0.1	0.1	0.1	1	0.1
	1450°CX 2H	-0.4	-0.4	-0.4	-0.4	4	-0.4
Apparent porosity (%)		22	≤23	≤23	≤22	2	≤22
Cold crushing strength (Mpa)		55	≥50	≥45	≥4(D C	≥35
Application		steel furnace, glass furna	ce, sodium silicate furnace	, ceramic shuttle kiln, ceme	ent rotary kiln, l	blast furnace,	electric furna

furnace and reverberatory furnace.

Manufacturing Process

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Raw Material Selection: High-quality bauxite and other alumina-rich materials are chosen. Mixing and Forming: Materials are mixed, shaped into the checker pattern, and pressed.

Drying and Firing: Formed bricks are dried and then fired at high temperatures to achieve sintering.

Quality Control: Rigorous testing for physical properties, chemical composition, and thermal behavior.

Product Advantages of Rongsheng High Alumina Checker Refractory Bricks

Energy Efficiency: The checker design enhances heat transfer, improving the efficiency of the furnaces.

Longevity: High durability and resistance to wear and tear result in a longer service life.

Reduced Maintenance Costs: Due to their robustness and resistance to degradation.

Environmentally Friendly: Can withstand harsh environments, reducing the need for frequent replacements and waste.

Comparison with Other Refractory Bricks

Versus Fireclay Bricks: Higher alumina content provides better high-temperature performance and slag resistance.

Versus Silica Bricks: More resistant to alkali attack and has better thermal shock resistance. Versus Magnesia Bricks: Offers superior resistance to acidic slags, whereas magnesia bricks are better for basic slags.

Recent Developments

Advanced Manufacturing Techniques: Improved pressing and firing methods enhance brick consistency and performance. Nanotechnology: Incorporation of nano-alumina particles to further improve thermal and mechanical properties. Eco-friendly Materials: Development of bricks using sustainable raw materials and reducing environmental impact during manufacturing.

Installation and Maintenance Installation: Requires precise alignment to ensure optimal performance. Typically installed by skilled professionals. Maintenance: Regular inspections for cracks or damage, and timely repairs to extend service life.

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