

Hot Sale High Quality 40% Alumina Refractory Bricks SK32 SK34 Fire Clay Brick For Heat Exchange Positions

Our Product Introduction

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Basic Information

- Place of Origin: Zhengzhou, Henan, China
- Brand Name: Rongsheng Xinwei
- Certification: ISO Certification
- Model Number: SK-32, SK-34
- 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

- Acid Resistance: Good
- Color: Yellow
- Cost: Moderate
- Durability: High
- Fire Resistance: Excellent
- Frost Resistance: Good
- Heat Resistance: Excellent
- Installation: Easy
- Maintenance: Low
- Material: Fireclay
- Moisture Resistance: Good
- Shape: Brick
- Size: Standard
- Texture: Smooth
- Weight: Heavy



More Images



Product Description

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Clay brick is a type of refractory brick made from clay that is high in alumina content (30-40%). It is composed of a mixture of mullite ($3\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2$), glass phase (25-60%), quartzite, and quartz (up to 30%).

Clay bricks can be classified into three types based on their alumina content:

- First class: $\text{Al}_2\text{O}_3 > 40\%$
- Second class: $\text{Al}_2\text{O}_3 > 35\%$
- Third class: $\text{Al}_2\text{O}_3 > 30\%$

The corresponding refractoriness of these bricks is at least 1700°C , 1670°C , and 1610°C , respectively. The softening temperature under load is between 1250°C and 1450°C . Clay bricks have good thermal stability and are generally used in the drying zone, preheating zone, decomposition zone, and cooling machine of rotary kilns.

Our Product Introduction

In recent years, many countries have developed special clay bricks with improved fire resistance temperature and alkali resistance.



Physical and Chemical Properties of Fire Clay brick

Clay bricks are made from clay clinker and refractory clay. They are suitable for use in heat exchange positions, chain belts, decomposition zones, smoke chambers, and grate coolers. Clay bricks have good wear resistance, low thermal conductivity, and are relatively inexpensive. However, they have lower fire resistance and strength than other types of refractory bricks.

Here Are Some of The Key Physical and Chemical Properties of Fireclay Bricks:

Refractoriness: The temperature at which a clay brick will soften or melt. Clay bricks typically have a refractoriness of 1610-1700°C.

Softening temperature under load: The temperature at which a clay brick will deform under a specific load. Clay bricks typically have a softening temperature under load of 1250-1450°C.

Thermal conductivity: The rate at which heat is transferred through a material. Clay bricks have a low thermal conductivity, which makes them ideal for use in heat exchange applications.

Porosity: The percentage of the volume of a clay brick that is occupied by pores. Clay bricks typically have a porosity of 20-30%. This porosity helps to absorb moisture and release it slowly, which helps to prevent thermal shock.

Alkali resistance: The ability of a clay brick to resist attack by alkalis, such as sodium and potassium oxides. Clay bricks with a high alumina content have good alkali resistance.

Applications of SK32 SK34 Fire Clay Brick:

1. Furnaces of metallurgy industry, heat treatment furnace
2. Furnaces of chemical industry and construction industry.
3. Furnace of incineration of garbage, recirculating fluidized bed furnace

Standard sizing: 230 x 114 x 65 mm others up to the client

Product Specification of High Quality Refractory Bricks SK32 SK34 Fire Clay Brick

Standard sizing: 230 x 114 x 65 mm ,Special size and OEM Service also provide!

The size is precise, providing kinds of shapes according to customer's drawing

Item/Grade	SK-32	SK-34	SK-36	SK-37
AL ₂ O ₃ % (≥)	35	38	55	65
Fe ₂ O ₃ % (≤)	2.5	2.5	2	2
Refractoriness(SK)	32	34	36	37
Refractoriness under load, 0.2MPa, °C(≥)	1300	1360	1450	1480
Apparent porosity (%)	22-24	20-22	20-23	20-23
Bulk density (g/cm ³)	1.95-2.1	2.1-2.2	2.25-2.4	2.3-2.5
Cold crushing strength ,MPa (≥)	25	30	45	50
Thermal expansion at 1000°C (%)	0.6	0.6	0.3	0.3



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