

## Light Yellow 50mm Silica Insulation Bricks For Superior Thermal Insulation High Temperature Environments

Our Product Introduction

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### Basic Information

- Place of Origin: Zhengzhou, China
- Brand Name: Rongsheng Xinwei
- Certification: ISO Certification
- Model Number: RS-0.8, RS-1.0, RS-1.1, RS-1.15, RS-1.2
- Minimum Order Quantity: 1 Ton
- Price: 10-15 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

- SiO<sub>2</sub> Content: 88%-91%
- Chemical Resistance: Excellent
- Color: Light Yellow
- Compressive Strength: 2-5MPa
- Durability: Good
- Certificate: ISO9001
- Heat Resistance: Good
- Material: Ceramic
- Porosity: ≤ 50%
- Refractoriness: 1500~1550
- Shape: Rectangular
- Thermal Conductivity: 0.2-0.3W/mK
- Thermal Stability: ≥1000
- Thickness: 50mm
- Usage: Lining Material



### More Images

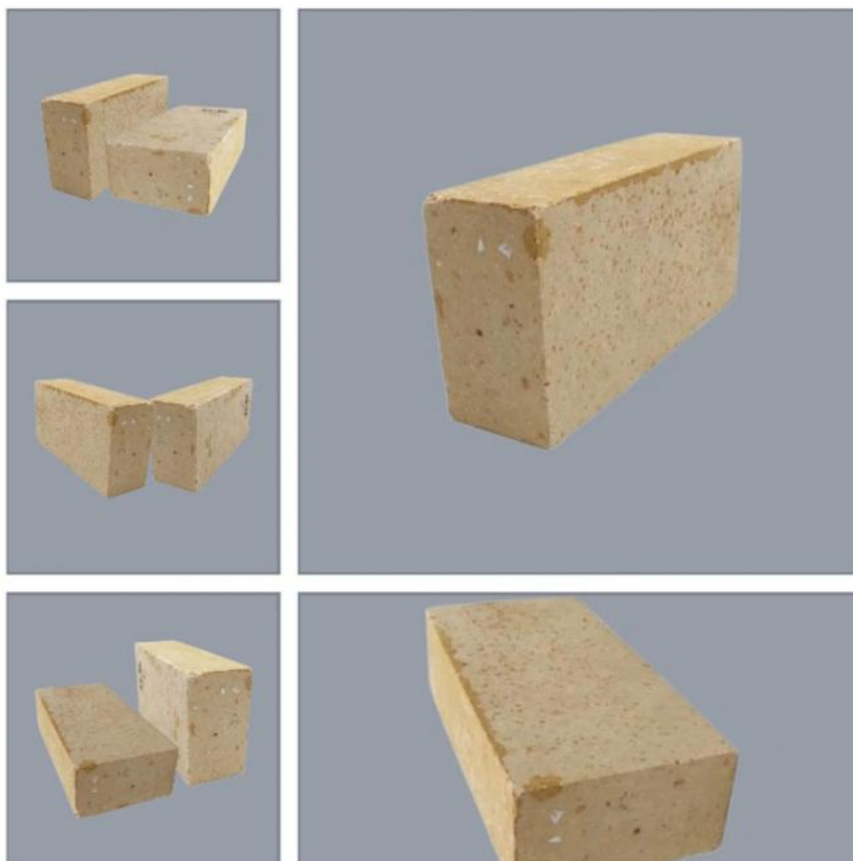


## Product Description

### Product Description of Lightweight Silica Insulation Bricks For Superior Thermal Insulation in High-Temperature Environments

Our refractory Silica Insulation Bricks are an acid refractory material primarily comprised of flake quartz, crystalline quartz, and small amounts of residual quartz and glass phase. They demonstrate outstanding resistance to erosion from acidic slag and possess a high load softening temperature ranging from 1640 to 1670°C. Additionally, they exhibit minimal volume change during prolonged exposure to elevated temperatures.

Our Lightweight Silica Bricks are meticulously crafted using high-quality silica materials, chosen with great care to ensure exceptional purity and uniformity. The production process involves precise blending, shaping, and high-temperature firing, resulting in bricks that are both durable and reliable. With cutting-edge manufacturing facilities, we assure consistent quality and meet the rigorous requirements of diverse industries.



### Key Features of Lightweight Silica Insulation Bricks in High-Temperature Environments

#### 1. High Purity Silica

Our bricks are composed of high-purity silica, ensuring excellent resistance to alkali and acidic environments, making them ideal for harsh industrial conditions.

#### 2. Exceptional Thermal Insulation

Silica Bricks exhibit outstanding thermal insulation properties, minimizing heat loss and enhancing energy efficiency in furnaces and kilns.

#### 3. Outstanding Heat Resistance

With remarkable heat resistance, our bricks remain stable even at extremely high temperatures, ensuring prolonged service life.

#### 4. Low Thermal Expansion

The low thermal expansion of Silica Bricks minimizes cracking and warping, ensuring consistent performance in fluctuating temperatures.

#### 5. Excellent Load Bearing Capacity

Our bricks have excellent load-bearing capacity, making them suitable for heavy-duty industrial applications and furnace linings.

#### 6. Versatile Shape and Size Options

Silica Bricks are available in various shapes and sizes, catering to diverse industrial needs and customized applications.

**Applications of Lightweight Silica Insulation Bricks**

1. Glass Industry

Silica Bricks are widely used in the glass industry for lining glass melting furnaces, ensuring optimal heat retention and corrosion resistance.

2. Metallurgical Industry

In the metallurgical sector, our bricks find application in coke oven walls, hot blast stoves, and other high-temperature furnaces due to their exceptional heat resistance and thermal insulation.

3. Ceramics and Refractories

Silica Bricks serve as essential components in ceramic kilns and various refractory linings, where their low thermal expansion and high load-bearing capacity are crucial.

4. Non-ferrous Metal Smelting

Our bricks are utilized in non-ferrous metal smelting furnaces, providing resistance to corrosive elements and high-temperature stability.

5. Chemical Industry

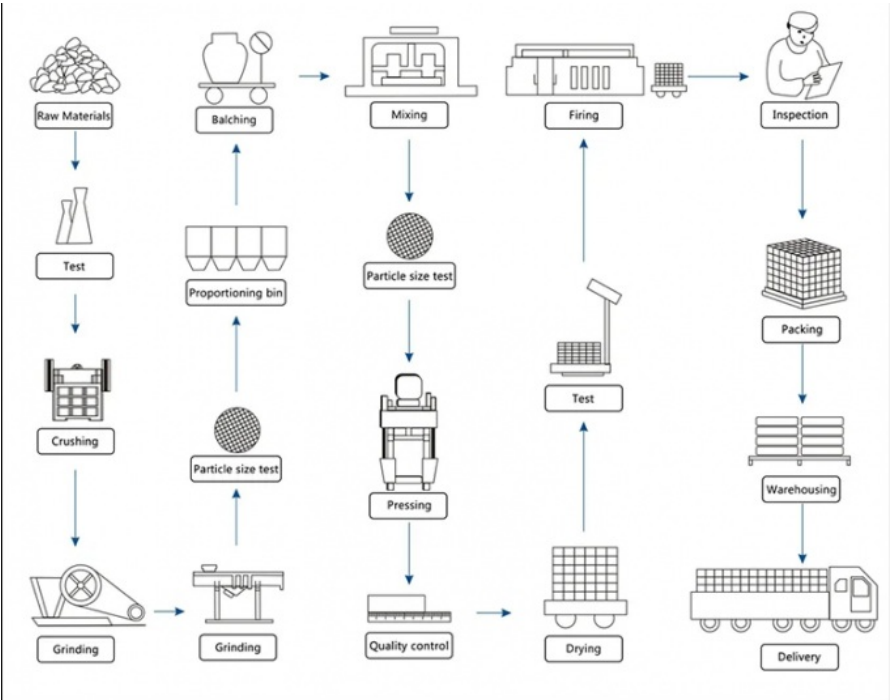
Silica Bricks find use in chemical reactors and chimneys, where their excellent thermal insulation properties and chemical resistance are highly valued.

**Product Specification of Lightweight Silica Brick Thermal Refractory Silicon Insulation Brick**

Silica Insulation Bricks					
Item/Index	RS-0.8	RS-1.0	RS-1.1	RS-1.15	RS-1.2
SiO2 %	≥88	≥91	≥91	≥91	≥91
Bulk Density g/cm3	≤0.85	≤1.00	≤1.10	≤1.15	≤1.20
Cold Crushing Strength Mpa	≥1.0	≥2.0	≥3.0	≥5.0	≥5.0
Thermal Conductivity (W/MK) 350	0.55	0.55	0.60	0.65	0.70
Permanent Linear Change On Reheating (%) 1450 *2h	0~+0.5	0~+0.5	0~+0.5	0~+0.5	0~+0.5
0.2Mpa Refractoriness Under Load T0.6	≥1400	≥1420	≥1460	≥1500	≥1520
20~1000 Thermal Expansion 10.6/	1.3	1.3	1.3	1.3	1.3

**Production Process of Lightweight Silica Insulation Bricks**

Put raw materials and water into a kneading equipment according to a certain proportion and then kneaded into mud. Shape the mud into bricks through molding by machine or manpower. Then dry the bricks till the residual water content is lower than 0.5%, which prevent the volume expansion from the crystal transformation of SiO2. At the end, fire the shaped bricks in the high temperature, but pay attention that increase and decrease the temperature slowly when firing.



**Advantages of Rongsheng Refractory Group**

1. Almost 20 Years Experienced Manufacturer

Rongsheng Refractory Group has 20 years of experience in refractory production, kiln design, and maintenance, to provide

Various solutions that meet the diverse needs of our clients.

## 2. Comprehensive Services

Rongsheng provides comprehensive pre-sales, in-sales, and after-sales services, including technical support, logistics arrangements, after-sales maintenance, etc., to ensure that clients can receive full support.

## 3. Flexible & Strong Supply Capability

Rongsheng has a strong capability to customize products, sufficient product storage space, and flexible supply chain ability to provide timely delivery and quick response according to customer needs.

## 4. Competitive Pricing

Located in the refractory material industrial zone in Henan Province, China, we have access to abundant raw material resources and benefit from low labor costs due to advanced equipment iteration.



**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