

## Light Weight Micro Nano Insulating Brick High Temp Refractory Bricks

Our Product Introduction

for more products please visit us on bricksrefractory.com

### Basic Information

- Place of Origin: Zhengzhou, Henan, China
- Brand Name: Rongsheng Xinwei
- Certification: ISO Certification
- Model Number: RS-WNM0.25, RS-WNM0.35, RS-WNM0.4, RS-WNM0.45, RS-WNM0.5
- 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: 2000tons /month



### Product Specification

- Color: White
- Durability: 10 Years
- Fireproof: Yes
- Heat Insulation: 90%
- Material: Nano
- Noise Reduction: 20dB
- Product Name: Nano Insulation Material
- Size: 1m X 1m
- Temperature Resistance: 200
- Thickness: 0.2mm
- UV Resistance: Yes
- Waterproof: Yes
- Weight: 0.5kg
- Highlight: **Micro Nano Insulating Brick, Light Weight High Temp Refractory Bricks,**

### Product Description

#### Description of Light Weight Nano Insulation Brick

The new micro-nano insulating brick series products solve the needs of thermal insulation of the wall and bottom of various large furnaces, and the working temperature can be from 600 to 1400 .With a wide range of application, good thermal insulation performance and high strength, the product can meet the requirements of energy saving and environmental protection of various furnaces.

#### (1)Main Advantages and Features

- (a)Low thermal conductivity:With low thermal conductivity, it has good heat insulation effect and can make the furnace wall thickness thinner under the same temperature condition, thus saving more cost.
- (b)Low heat capacity:Due to its ultra light bulk density and low thermal conductivity. the brick accumulates less heat inside, making it more energy efficient.
- (c) Good stability:With very low iron oxide and potassium metal content its stability is better within the specified service temperature.

Our Product Introduction

(d) High strength: Its strength at normal and high temperatures higher than other products with the same bulk density at the same temperature.

(e) Low size tolerance: The size tolerance is within 0.05mm, the dimensions can be customized according to customer requirements.

## (2) Typical Applications

It can be used as a thermal insulation backing layer of refractory materials and the application include: all kinds of industrial furnaces, hot blast furnaces, heating furnaces, smelting furnaces, flue pipes, hot air ducts and other heating and heat generating parts.

### a) Roller Kiln, Tunnel Kiln

Application: Furnace walls and bottom insulation layer of the ceramic roller kiln

Alternative of following: Lightweight clay brick, high alumina insulating brick, mullite insulating brick

Advantages: not easy to shrink, not easy to pulverize, performance not easy to decay, more cost-effective.

### (b) Large Hot Air Duct

Application position: Insulation layer of large hot air duct.

Alternative of following: Lightweight bricks, high alumina poly-light bricks

Advantages: lower outside wall temperature, more energy efficient, lighter weight of thermal equipment, more cost effective

## Product Specification of Customized Light Weight New Micro-nano Insulating Brick

Item	Index				
Model	RS-WNM0.25	RS-WNM0.35	RS-WNM0.4	RS-WNM0.45	
BD, g/cm <sup>3</sup>	0.25	0.35	0.4	0.45	
CCS, MPa	≥0.5	≥0.6	≥0.8	≥1.0	
400°C TC, W/(m.K)	≤0.1	≤0.105	≤0.110	≤0.115	
PLC, %	±0.5	±0.5	±0.5	±0.5	
	600 x12h	900 X12h	1000 x12h	1050 x12h	
Fe <sub>2</sub> O <sub>3</sub> , %	≤0.5	≤0.5		≤0.5	



**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