

SHANDONG TAIRAN IMPORT AND EXPORT CO.,LTD

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Low Thermal Conductivity Refractory Brick For Cement Kiln



Low thermal conductivity refractory bricks used in cement kilns are mainly used in the safety belt and preheating decomposition zone of rotary kilns, with good thermal shock stability performance. They are water-cooled at 1100 °C for more than 16 times and are not easy to crack or fracture during long-term use. The thermal conductivity is low, with a thermal conductivity of less than 1.3w/m.k at 300 °C, effectively achieving the effect of cooling and energy conservation.

1, Technical index of Low thermal conductivity refractory bricks for cement kiln

Item	Unit	Value
Al ₂ O ₃	%	32-40
Fe ₂ O ₃	%	≤1.6
SiO ₂	%	58-64
Density	g/cm ³	2.10-2.20
Porosity	%	≤16
Thermal shock resistance 1100°C, water cooling	times	≥16
Refractoriness under load	°C	≥1300
Thermal expansivity 1000°C	%	≤0.6
Thermal conductivity 300°C	w/m.k	≤1.3
Alkali resistance 1100°C*5h		Level 1

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2. Product Description

Low thermal conductivity refractory bricks are clay based products produced using high-quality clay and low thermal conductivity refractory raw materials. They have low iron oxide content, high density, low porosity, especially low thermal conductivity, good thermal shock resistance, and alkali resistance, reducing kiln load and effectively achieving energy-saving effects. This product is an energy-saving refractory brick developed to meet the requirements of users and meet the usage effects of kilns. It is mainly used in the safety belts and preheating decomposition belts of cement kilns, as well as the permanent layer parts of other industrial kilns. The use temperature is not higher than 1300 °C, replacing high alumina bricks with alumina content not exceeding 60%, and reducing the cost of the kiln.

3. Main features of the product

- 1) The content of iron oxide is lower than that of ordinary clay refractory bricks, generally not exceeding 1.6%
- 2) The porosity is relatively low, generally not more than 16%, and the density is good
- 3) The thermal shock stability performance is better than that of ordinary clay refractory bricks, generally greater than 16 times
- 4) The thermal conductivity coefficient is relatively low, generally not greater than 1.3w/m.k, effectively achieving cooling and energy conservation

4. Product Usage

Mainly used in safety belts for cement rotary kilns, preheating and decomposition belts, and safety layers for other industrial kilns.

Do you want to find a professional supplier of Low thermal conductivity refractory bricks for cement kiln?

Do you want to find a stable and credible supplier?

Then please contact with us

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