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Low thermal conductivity magnesia alumina spinel brick



Low thermal conductivity magnesia alumina spinel bricks are mainly used in the transition zone of cement rotary kilns, with excellent alkali corrosion resistance, thermal shock stability, wear resistance, low thermal conductivity, and a service life of up to 18 months.

1. Technical index of Low thermal conductivity magnesia alumina spinel brick

Item	Unit	Working layer	Insulation layer
MgO	%	85-87	65-68
Al ₂ O ₃	%	9-11	1.7-2.0
Fe ₂ O ₃	%	0.5-0.7	-
SiO ₂	%	0.6-0.7	-
CaO	%	1.3-1.5	-
Density	g/cm ³	2.95-3.0	2.5-2.6
Porosity	%	14-16	23-24
Thermal shock resistance 950°C, air cooling	times	≥100	-
Refractoriness under load	°C	≥1700	≥1600
Thermal expansivity 1000°C	%	≤1.26	≤1.1
C. C.S	Mpa	≥60	≥30
Thermal conductivity 300°C	w/m.k	≤4.0	≤2.5

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2.Product Description

Low thermal conductivity magnesia aluminum produced stone brick is a new product developed in recent years. It is a composite structure refractory brick composed of a working layer and an insulation layer. It is an energy-saving and environmentally friendly refractory brick, which has good wear resistance and thermal insulation and energy-saving effects. The product is produced using high-quality sintered magnesia, synthetic lightweight magnesium olivine, synthetic aluminum magnesium spinel, and other main raw materials, mainly used in the transition zone of cement rotary kilns.

During long-term use, the product has demonstrated good performance, superior resistance to chemical erosion, superior thermal shock stability, superior wear resistance, and low thermal conductivity, achieving effective energy-saving effects. It reduces the mechanical stress on the kiln body load, improves the service life of the kiln, and extends its service life.

3. Main features of the product

- 1> High purity, with a magnesium oxide content of over 85% in the working layer.
- 2> High temperature resistance, with a working layer load transfer of over 1700 °C.
- 3> Good thermal shock stability, 950 °C air cooling, up to 100 times or more.
- 4> The low thermal conductivity has the effect of effectively saving energy, fuel, and reducing the temperature of the kiln shell.
- 5) The working layer has good wear resistance.

4. Main uses of the product

The transition zone of cement rotary kiln, alkali resistant erosion parts of lime kiln and other industrial kilns.

5. Main Customer Performance Table

Country	Product name	QTY MT	Time	Application
South africa	MgO>80% Spinel brick	460	2019.8	cement rotary kiln
Russia	Magnesia spinel brick	580	2022.5	cement rotary kiln
Pakistan	Spinel brick	230	2017.6	cement rotary kiln
Iran	MgO≥85% Spinel brick	180	2018.4	cement rotary kiln
India	Cement kiln magnesia brick	360	2021.7	cement rotary kiln

Do you want to find a professional supplier of Low thermal conductivity magnesia alumina spinel brick?

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