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Nano Microporous Heat Insulation Board



Introduction: nano microporous heat insulation board is a kind of high-grade thermal insulation product. Its main raw materials are nano microporous SiO₂, sunscreen SiC, sintering inhibitor and reinforcing fiber. The product has extremely low thermal conductivity, good thermal insulation effect and high strength. The maximum operating temperature is 1000 °C, which is deeply welcomed by users.

1, Main technical index of Nano microporous heat insulation board

Item	Unit	Value	
Main composition		SIO ₂	
Thermal conductivity	W/m.k	100°C	0.0221
		200°C	0.0222
		400°C	0.0244
		600°C	0.0281
		800°C	0.0343
B.D	kg/m ³	240-350	
Compression strength	Mpa	≥1.6	
Linear shrinkage 1000°C	%	≤1.2	
Maximum service temperature	°C	1000	

2,Product description

Nano microporous heat insulation board is produced by using nano SiO₂ with extremely low thermal conductivity and reinforced fiber as main raw materials. The bottom layer is made of aluminum foil paper or glass fiber, and the single-layer

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composite structure is pressed and baked. The thermal conductivity is smaller than that of static air, and the thermal insulation effect is 3-5 times that of traditional thermal insulation materials. The long-term service temperature is 1000 °C, and the service life is more than 5 years. The product is made of inorganic materials, safe and environment-friendly, without any release of harmful substances, and has reached class A fire performance. The product is easy to process and construct. The products are widely used in ladle of steel-making industry and 1000 °C thermal insulation layer of cement, chemical industry, building materials and other industries

3. Main features of the product

- 1) Extremely low thermal conductivity, smaller than that of still air
- 2) The heat insulation effect is very good, which is 3-5 times that of traditional thermal insulation materials
- 3) High strength, high temperature resistance, long-term service temperature of 1000 °C, service life of more than 5 years
- 4) Fireproof class A, easy to process
- 5) Environmentally friendly products, without any harmful substance release

4. Main uses of the product

The products are widely used in ladle and tundish thermal insulation of iron and steel industry, thermal insulation of cement, chemical industry, building materials industrial furnace, thermal insulation of pipeline and power industry.

5, Good feedback of product use effect, the products have been exported to South Korea, Japan, Pakistan

6, We are a professional supplier, who can provide customers with free product technology, use and other issues

Do you want to find a professional supplier of nano microporous heat insulation board?

Do you want to find a stable and credible supplier?

Then please contact with us

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