

**MICROPOROUS INSULATIONS • CERAMIC FIBRE PRODUCTS • INSULATING FIRE BRICKS**

Head Office, Factory and Warehouse: P.O. Box 22, Mohanpur, Near Carmel School, Giridih 815301, Jharkhand, India, Phone: 09339823205/9308483359

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**MICROPOROUS INSULATION BOARDS**

RD offers a superior grade of microporous insulating material made of silicone carbide, fumed silica, opacifiers to reduce radiation and fibres as reinforcers. Our material is based on a microporous core with a very low thermal conductivity, which means that it has very high thermal insulation properties which help to considerably reduce heat loss (such as in ladles, tundishes etc) thereby resulting in great savings on the electricity and fuel cost.

**A new technology advanced material now very popular in the USA and Europe.**

Our microporous insulation boards can be easily drilled, and cut to size with standard hand working tools.

**Applications:**

- Heat treatment system of metal melting industry
- Heat treatment systems for glass and ceramics
- Cement Industry
- Oil & Natural Gas Pipelines
- Fire Protection
- Petrochemical Industry

Properties	UOM	Values
Color		Grey
Maximum working temperature	Deg C	1050
Density	Kg/m <sup>3</sup>	270-320
Non combustibility test		Classification A1
Compressive strength at 10% (ASTM C165)	MPa	>0.32
Thermal conductivity (ISO 8302, ASTM C177)		
At 200 Deg C	W/m.k	0.024
At 400 Deg C	W/m.k	0.025
At 600 Deg C	W/m.k	0.027
At 800 Deg C	W/m.k	0.028
Specific heat capacity		
At 200 Deg C	kJ/kg.K	0.92
At 400 Deg C	kJ/kg.K	1.00
At 600 Deg C	kJ/kg.K	1.04
At 800 Deg C	kJ/kg.K	1.08

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Shrinkage (ISO 2477)		
One side 12h @ 1000 Deg C	%	<0.5
At all sides 24h @ 1000 Deg C	%	<3
Hydrophobic upto	Deg C	300
Chemical Composition		
	SiO <sub>2</sub>	approx. 50-90%
	SiC	approx. 8-49%
	Others	approx. 1-6%

**Standard Board Dimensions**

275mm x 350mm  
550mm x 350mm  
550mm x 700mm  
1100mm x 700mm

**Thickness**

5mm upto 50mm

**Tolerances**

	<b>Width (mm)</b>	<b>Length (mm)</b>
STD (1100mm x 700mm)	Max 715	Max 1120
Customized size	+/- 3	+/- 3
	<b>Thickness (mm)</b>	<b>Tolerances (mm)</b>
	5-10	+/- 0.5
	10,1-30	+/- 0.8
	30,1-50	+/- 1.5

**Safety instructions**

The material used are not dangerous for humans or environment following the European directive UE2006/1907/EEC. The fibres used in the core have a diameter >3um.

**Different Grades available**

Wrapped with PE Foil / Aluminum Foil / Fibre glass  
Moulded Shapes  
Nude