Microporous Board

DESCRIPTION

Microporous Board is a rigid, high integrity microporous board offering superior insulation properties combined with good handleability. Produced from an opacified blend of pyrogenic silica with a filament reinforcement, this board is available in a 1000°C and 1100°C, in a raw state (i.e. no encapsulation) or enhanced in a variety of coverings, such as glass fibre or aluminium encapsulation.

Microporous Board can be cut and shaped with conventional woodworking hand tools and machinery and fixed as with other similar insulation materials using glue, retaining pins or anchors.

GENERAL CHARACTERISTICS

Microporous Board has the following outstanding characteristics :

- Low thermal conductivity & shrinkage
- High thermal stability
- Inorganic & non-combustible
- No harmful respirable fibres
- Resistant to most chemicals
- Environment friendly

TYPICAL APPLICATIONS

- Steel forging furnaces, reheating furnaces, soaking pit covers
- Oil and Gas (crackers, distillation units, reformers)
- Aluminium pyrolysis cells, holding furnaces, smelters & launder metal transfer systems
- All types of kilns & kiln cars (roller, tunnel, shuttle)
- Glass melting furnaces, regenerators, refiners, forehearths

Any new and/or special use of these products, whether or not in an application listed in our literature, must be submitted to our technical department for their prior written approval.

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specialty fibers for a greener, cleaner, safer world

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TYPICAL PRODUCT PARAMETERS

Microporous Board		
Physical Properties		
Classification Temperature (°C)	1000	1100
Nominal Density (kg/m^3)	280	300
Compressive Strength (MPa) @ 10% Deformation	0.33	0.67
Thermal Conductivity (W/mK)		
200°C	0.022	0.024
400°C	0.025	0.028
600°C	0.028	0.037
800°C	0.033	0.044
Specific Heat Capacity (kJ/kg.K)		
200°C	0.86	0.93
400°C	0.94	0.96
600°C	0.96	1.02
800°C	0.99	1.07
Linear Shrinkage (%)		
24 Hour Soak @ 950°C	≤ 2.5	≤ 0.5
24 Hour Soak @ 1050°C	-	≤ 2.5

Thermal Conductivity figures are empirical values (average) based on experience.

Classification Temperature is not a definition of the operational limit of these products, especially when long term physical or dimensional stability is a factor. For certain applications continuous use temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office.

AVAILABILITY

Product	Width x Length (mm)	Thickness (mm)
Board	600 x 1000	10 - 50
Available Coverings	Raw / PE / GF / ALU	-

Other sizes may be available on request subject to minimum order quantity.

HANDLING INFORMATION

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use.

Supplied by: