



VIZYON MICROPOROUS PANELS (1000 C)



VM BOARD 1000 C



VM FLEXIBLE 1000 C

Vizyon Microporous Panels 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 grade, in a raw state (ie no encapsulation) or enhanced in a variety of coverings, such as glass fibre or aluminium encapsulation. Features and Benefits

- Extremely low thermal conductivity over a wide temperature range
- High thermal stability
- Low shrinkage
- Low in weight
- Wide range of sizes available to order
- Alternative grades available to suit the application
- Inorganic and non-combustible

- Simple to handle, cut, and shape
- No harmful respirable fibres
- Environmentally friendly
- Resistant to most chemicals Cutting and Fixing VM Flexible 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. Rigid Microporous Insulation VM Board Typical Applications
- For use as back up insulation in: Steel forging furnaces, reheating furnaces, soaking pit covers Oil and Gas (crackers, distillation units, reformers) Aluminium pyrolysis cells, holding furnaces, remelters and launder metal transfer systems All types of kilns (roller, tunnel, shuttle) Kiln Cars Glass melting furnaces, regenerators, refiners, forehearths

Properties	VM BOARD PANEL	VM FLEXIBLE PANEL
Water Resistance	Hydrophilic	Hydrophilic
Classification Temperature, °C (°F)	1000 (1832)	1000 (1832)
Density, kg/m ³ (pcf), nominal	285 (15.9)	265 (15.9)
Cold Compression Strength, MPa (psi), ASTM C 165	> 0.2 (29)	> 0.2 (29)
Chemical Analysis, %		
Silica, SiO ₂	56-80	
Silicon Carbide, SiC	12-25	
Others	5-10	
Loss of Ignition, Dry condition	<2.0	
Thermal Conductivity, W/m•K (BTU•in/hr•ft²•°F)		
200°C (392°F)	0.026 (0.160)	
400°C (752°F)	0.030 (0.180)	
600°C (1112°F)	0.038 (0.229)	
800°C (1472°F)	0.051 (0.305)	

Shelf Life

- The product has an unlimited shelf life when properly stored in dry conditions; moisture does not affect the products, but condensation should be avoided due to its hydrophilic nature.

Standard Dimensions and Availability

Dimensions, mm	Thickness, mm
1000 x 1000	10, 20, 30, 40
1000 x 600	
1000 x 400	

Whilst the values and application information in this datasheet are typical, they are given for guidance only. The values and the information given are subject to normal manufacturing variation and may be subject to change without notice. Vizyon Innovative Insulation Ltd. Sti – Vizyon Innovative Insulation Ltd. Stimakes no guarantees and gives no warranties about the suitability of a product and you should seek advice to confirm the product's suitability for use with Vizyon Innovative Insulation Ltd. Sti



Production and General Center

Vizyon İnovatif Yalıtım Enerji Müh. Ltd. Şti.

Postane Mah. Yalıboyu Cad. No: 81/A
Tuzla İstanbul / TÜRKİYE

Telefon: +90 216 446 00 04

E-mail: info@vizyonendustriyelyalitim.com

SILENCE FOR SAFETY AND COMFORT