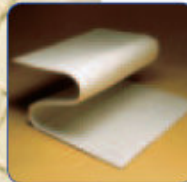




PASSIVE FIRE PROTECTION MATERIALS



Microtherm® Overstitched Panel
Flexible insulation for fire protection



Microtherm® Overstitched Panel is a lightweight panel of high performance thermal insulation designed to flex easily around complex shapes for optimised protection. The panels are the basis of the ultra lightweight Microtherm® passive fire protection systems for all modes of transportation.

Properties

- Opacified blend of filament reinforced silica
- Lightweight flexible panels of microporous insulation
- Certified to internationally recognised standards including IMO and USCG
- Certified non combustible
 - Certified Class A1 to European Single Burning Item (SBI) test, EN 13823*
 - Stable performance for fire exposure
 - Clean and environmentally safe.

Typical applications

- Marine FFP to bulkheads and decks - standard aluminium, lightweight aluminium, steel, composites
- Fire protection to piping systems - fast fitting
- Passive fire protection to rail applications - lightest systems for aluminium carriage floors.

Microtherm is a world leader for thermal insulation solutions • info@microthermgroup.com • www.microthermgroup.com

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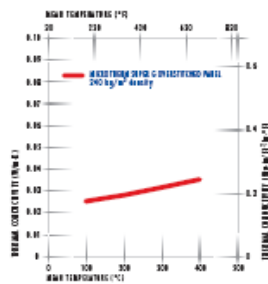
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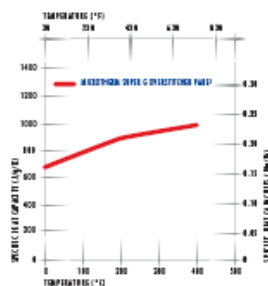
Microtherm® Overstitched Panel

TYPICAL PRODUCT CHARACTERISTICS

Thermal Conductivity



Specific Heat Capacity



Size Availability

For thicknesses ≤ 6.0 mm (1/4") - panel size 1000 mm x 1000 mm (39 3/8" x 39 3/8").
 For thicknesses > 6.0 mm (1/4") - panel size 1200 mm x 600 mm (47 1/4" x 23 5/8").
 Other sizes may be specified by the customer.
 Thickness as specified by the customer. Normally in the range of 3 - 10 mm (1/8" to 3/8") in 0.5 mm steps.
 If greater thicknesses are needed the use of two or more layers is advised.

Performance

Maximum temperature limits Microtherm® Super G - 1000 °C (1832 °F) for long term exposure.

Thermal conductivity (TC) - Microtherm® Super G @ 240 kg/m³

- 0.0258 W/m.K at 100 °C mean
- 0.0283 W/m.K at 200 °C mean
- 0.0313 W/m.K at 300 °C mean
- 0.0347 W/m.K at 400 °C mean

Note: TC will vary as a function of density and sewn cell pitch size. Data shown are for a cell pitch of 50 mm (2").

Specific heat capacity

- 800 J/g.K at 0 °C
- 920 J/g.K at 200 °C
- 1000 J/g.K at 400 °C

Manufacturing Tolerances

Tolerance on panel dimensions

± 3 mm (± 1/8")

Tolerance on thickness

3 - 10 mm (1/8" - 3/8") panel thickness, tolerance ± 0.5 mm (± 0.02").

Density

Density of the panel core 200 - 300 kg/m³ dependent on panel area and thickness.

Standard finish styles available

Woven E glass covering. Stitched on 50 mm (2") square lattice.
 100 mm (4") and 150 mm (6") stitching grids available when appropriate

Typical Values

Performance values quoted here are for general guidance.
 For more precise information and assistance with design please contact our materials specialists.

The information contained in this datasheet/brochure is intended to assist in designing with Microtherm products. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown on this datasheet will be achieved by a user for a particular purpose. The user is responsible for determining the suitability of Microtherm products for each application. No known health hazards in normal use.

www.microthermgroup.com

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