

Microtherm Group Marineguard® Filament Reinforced Silica Marine Insulation Panel, Flexible and Waterproof

Category : Ceramic , Oxide , Silicon Oxide , Other Engineering Material

Material Notes:

Microtherm Marineguard® is a lightweight flexible overstitched panel of high performance thermal insulation designed to form easily around complex shapes for optimized 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 overstitched panels of microporous insulation

Certified to internationally recognized standards including IMO and USCG

Certified non combustibile

Certified Class A1 to European Single Burning Item (SBI) test, EN 13823

Stable performance for fire exposure

Clean and environmentally safe

Typical Applications

Marine PFP to bulkheads and decks - standard aluminum, lightweight aluminum, steel, composites

Fire protection to piping systems - fast fitting

Passive fire protection to rail applications - lightest systems for aluminium carriage floors

Information provided by Microtherm.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Microtherm-Group-Marineguard-Filament-Reinforced-Silica-Marine-Insulation-Panel-Flexible-and-Waterproof.php

Physical Properties	Metric	English	Comments
Density	0.200 - 0.300 g/cc	0.00723 - 0.0108 lb/in ³	
Thickness	4000 - 10000 microns	157 - 394 mil	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.680 J/g-Â°C	0.163 BTU/lb-Â°F	
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
	0.920 J/g-Â°C	0.220 BTU/lb-Â°F	
	@Temperature 200 Â°C	@Temperature 392 Â°F	
Thermal Conductivity	1.00 J/g-Â°C	0.239 BTU/lb-Â°F	
	@Temperature 400 Â°C	@Temperature 752 Â°F	
	0.0258 W/m-K	0.179 BTU-in/hr-ftÂ²-Â°F	@ 240 kg/mÂ³, cell pitch of 50mm
	@Temperature 100 Â°C	@Temperature 212 Â°F	
Thermal Conductivity	0.0283 W/m-K	0.196 BTU-in/hr-ftÂ²-Â°F	@ 240 kg/mÂ³, cell pitch of 50mm
	@Temperature 200 Â°C	@Temperature 392 Â°F	
	0.0313 W/m-K	0.217 BTU-in/hr-ftÂ²-Â°F	@ 240 kg/mÂ³, cell pitch of 50mm

Thermal Properties	@Temperature 300 Â°C Metric	@Temperature 572 Â°F English	Comments
	0.0347 W/m-K	0.241 BTU-in/hr-ftÂ²- Â°F	@ 240 kg/mÂ³, cell pitch of 50mm
	@Temperature 400 Â°C	@Temperature 752 Â°F	
Maximum Service Temperature, Air	1000 Â°C	1830 Â°F	for long term exposure

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