

Microtherm Group Slim&Light Fire Resistant Insulation

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

Material Notes:

Microtherm® Slim&Light is a thin lightweight panel of ultra - high performance microporous thermal insulation. It is a highly efficient barrier to flame and heat. Microtherm® Slim&Light allows the design and fast assembly of thin, high efficiency lift fire doors. In a fire, stay cool with guaranteed fire security from Microtherm®. Benefits Microtherm® Slim&Light is available as a single large panel - no heat leakage through butt joints. This single fire resistant panel also aids fast, simple door assembly. The fire stopping efficiency of Microtherm® ensures the thinnest and lightest door construction. Microtherm® Slim&Light is non-combustible. Microtherm® Slim&Light is environmentally friendly with no respirable fibers. Comfortably maintains thermal performance and integrity through full 2 hour fire exposure on lift doors. Panels available for A60, A90, and A120 ratings. Enables thermal performance compliance to buildings/fire door regulations EN 1363-1 and EN 1364-1. Testing to EN 81-58:2003 "Fire resistance testing of lift landing doors". Information provided by Microtherm.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Microtherm-Group-SlimLight-Fire-Resistant-Insulation.php

Physical Properties	Metric	English	Comments
Thickness	15000 - 30000 microns	591 - 1180 mil	according to rating

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.680 J/g-°C	0.163 BTU/lb-°F	
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	0.920 J/g-°C	0.220 BTU/lb-°F	
	@Temperature 200 °C	@Temperature 392 °F	
	1.00 J/g-°C	0.239 BTU/lb-°F	
	@Temperature 400 °C	@Temperature 752 °F	
Thermal Conductivity	0.0225 W/m-K	0.156 BTU-in/hr-ft²-°F	@ 320 kg/m³; estimated from plot
	@Temperature 100 °C	@Temperature 212 °F	
	0.0250 W/m-K	0.174 BTU-in/hr-ft²-°F	@ 320 kg/m³; estimated from plot
	@Temperature 500 °C	@Temperature 932 °F	
	0.0300 W/m-K	0.208 BTU-in/hr-ft²-°F	@ 320 kg/m³; estimated from plot
	@Temperature 625 °C	@Temperature 1160 °F	
	0.0350 W/m-K	0.243 BTU-in/hr-ft²-°F	

Thermal Properties	Metric	English	Comments
	@ Temperature 800 Â°C	@ Temperature 1470 °F	@ 320 kg/mÂ³; estimated from plot

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