

Microtherm Group MT Thermosphere® Moldable Insulation Paste

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

Material Notes:

MT Thermosphere® is a low density temperature resistant paste with excellent thermal insulation properties from cryogenic to high temperature exposure. It is a perfectly seamless insulation system. MT Thermosphere® is self drying and moldable. It dries by the evaporation of the water content. If required, it can be finished by painting or the application of a covering material. Non-combustible to Euro Class A1 (DIN EN 13501-1:2002) Hydrophobic at temperatures < 350°C (662°F) when set. Properties Formulation based on glass microspheres in inorganic binder. Capable of continuous single sided exposure to 650°C (approx. 1200°F). Non-combustible to Euro Class A1. Paste will air dry but drying can be accelerated by heating to no higher than 200°C (approx. 390°F). No shrinkage when drying. Good thermal insulation. Low density / low weight. Suitable for insulation of complex shapes in inaccessible areas. Environmentally safe. Hydrophobic. Applications Typical application temperature range from -20 to 600°C (approx. 0 to 1110°F). Precast shapes for pipes and difficult areas. Penetration seals. Gap sealing in insulation systems for continuity of protection. On site repairs of existing insulation systems. Any application where conventional insulation block or panel is difficult to use. Information provided by Microtherm.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Microtherm-Group-MT-Thermosphere-Moldable-Insulation-Paste.php

Physical Properties	Metric	English	Comments
Density	0.110 g/cc	0.00397 lb/in ³	dry
	0.330 g/cc	0.0119 lb/in ³	wet

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.840 J/g-°C	0.201 BTU/lb-°F	
Thermal Conductivity	0.0370 W/m-K	0.257 BTU-in/hr-ft ² -°F	@ 110 kg/m ³ ; ASTM C177, ISO 8302, DIN EN-12667:2001-05
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.0380 W/m-K	0.264 BTU-in/hr-ft ² -°F	@ 110 kg/m ³ ; ASTM C177, ISO 8302, DIN EN-12667:2001-05
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	0.0420 W/m-K	0.291 BTU-in/hr-ft ² -°F	@ 110 kg/m ³ ; ASTM C177, ISO 8302, DIN EN-12667:2001-05
@Temperature 50.0 °C	@Temperature 122 °F		
0.0470 W/m-K	0.326 BTU-in/hr-ft ² -°F	@ 110 kg/m ³ ; ASTM C177, ISO 8302, DIN EN-12667:2001-05	
@Temperature 100 °C	@Temperature 212 °F		
0.0580 W/m-K	0.403 BTU-in/hr-ft ² -°F	@ 110 kg/m ³ ; ASTM C177, ISO 8302, DIN EN-12667:2001-05	
@Temperature 200 °C			

Thermal Properties	Metric	English	Comments
	0.0700 W/m-K @Temperature 300 Å°C	0.486 BTU-in/hr-ftÅ ² -Å°F @Temperature 572 Å°F	@ 110 kg/mÅ ³ ; ASTM C177, ISO 8302, DIN EN-12667:2001-05
	0.0850 W/m-K @Temperature 400 Å°C	0.590 BTU-in/hr-ftÅ ² -Å°F @Temperature 752 Å°F	@ 110 kg/mÅ ³ ; ASTM C177, ISO 8302, DIN EN-12667:2001-05
	0.102 W/m-K @Temperature 500 Å°C	0.708 BTU-in/hr-ftÅ ² -Å°F @Temperature 932 Å°F	@ 110 kg/mÅ ³ ; ASTM C177, ISO 8302, DIN EN-12667:2001-05
Maximum Service Temperature, Air	650 Å°C	1200 Å°F	for long term exposure
Shrinkage	<= 2.0 % @Temperature 450 Å°C, Time 86400 sec	<= 2.0 % @Temperature 842 Å°F, Time 24.0 hour	full soak

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month @Temperature >=5.00 Å°C	12.0 Month @Temperature >=41.0 Å°F	

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