

Duratherm FG Paraffinic Heat Transfer Fluid

Category : Fluid

Material Notes:

Duratherm FG - thermal oil rated to 620°F it is engineered and manufactured to comply with the demands of food grade applications. NSF registered, meets USDA requirements for incidental food contact (H1) and meets the requirements of 21CFR1783570. Information provided by Duratherm.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Duratherm-FG-Paraffinic-Heat-Transfer-Fluid.php

Physical Properties	Metric	English	Comments
Density	0.678 g/cc	0.0245 lb/in ³	
	@Temperature 288 °C	@Temperature 550 °F	
	0.705 g/cc	0.0255 lb/in ³	
	@Temperature 316 °C	@Temperature 600 °F	
	0.731 g/cc	0.0264 lb/in ³	
	@Temperature 260 °C	@Temperature 500 °F	
	0.732 g/cc	0.0264 lb/in ³	
	@Temperature 204 °C	@Temperature 400 °F	
	0.843 g/cc	0.0304 lb/in ³	
	@Temperature 37.8 °C	@Temperature 100 °F	
Kinematic Viscosity	0.70 cSt	0.70 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
	0.83 cSt	0.83 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
	0.97 cSt	0.97 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
Kinematic Viscosity at 40°C (104°F)	33.1 cSt	33.1 cSt	
Kinematic Viscosity at 100°C (212°F)	5.9 cSt	5.9 cSt	
Molecular Weight	395 g/mol	395 g/mol	Average
Vapor Pressure	0.00482 bar	3.62 torr	
	@Temperature 204 °C	@Temperature 400 °F	
	0.0241 bar	18.1 torr	

Physical Properties	@Temperature 260 °C Metric	@Temperature 500 °F English	Comments
	0.05723 bar	42.92 torr	
	@Temperature 288 °C	@Temperature 550 °F	
	0.10687 bar	80.157 torr	
	@Temperature 316 °C	@Temperature 600 °F	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	2.01 J/g-°C	0.480 BTU/lb-°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
	2.51 J/g-°C	0.600 BTU/lb-°F	
	@Temperature 204 °C	@Temperature 400 °F	
	2.76 J/g-°C	0.660 BTU/lb-°F	
	@Temperature 260 °C	@Temperature 500 °F	
	2.80 J/g-°C	0.670 BTU/lb-°F	
	@Temperature 288 °C	@Temperature 550 °F	
	2.97 J/g-°C	0.710 BTU/lb-°F	
	@Temperature 316 °C	@Temperature 600 °F	
Thermal Conductivity	0.130 W/m-K	0.900 BTU-in/hr-ft²-°F	
	@Temperature 288 °C	@Temperature 550 °F	
	0.131 W/m-K	0.912 BTU-in/hr-ft²-°F	
	@Temperature 316 °C	@Temperature 600 °F	
	0.133 W/m-K	0.924 BTU-in/hr-ft²-°F	
	@Temperature 204 °C	@Temperature 400 °F	
	0.135 W/m-K	0.936 BTU-in/hr-ft²-°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.1453 W/m-K	1.008 BTU-in/hr-ft²-°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
Pour Point	-17.2 °C	1.00 °F	
Flammability Test	466	466	Fire Point, °F
	682	682	Autoignition Temp, °F
Flash Point	227 °C	440 °F	

Descriptive Properties	Value	Comments
Distillation range at 10%	769	
Distillation Range at 90%	930	
Max Bulk Temp (°F)	620	
Max Film Temp (°F)	670	

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