

Duratherm LT Paraffinic Heat Transfer Fluid

Category : Fluid

Material Notes:

Duratherm LT - heat transfer fluid engineered for applications requiring process temperatures ranging from -30°F to 600°F. Ideal for batch processing requiring heating and cooling cycles. Eliminates the need for heat tracing in outdoor applications. Information provided by Duratherm.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.6129 g/cc	0.02214 lb/in ³	
	@Temperature 316 °C	@Temperature 600 °F	
	0.636 g/cc	0.0230 lb/in ³	
	@Temperature 288 °C	@Temperature 550 °F	
	0.646 g/cc	0.0233 lb/in ³	
	@Temperature 260 °C	@Temperature 500 °F	
	0.684 g/cc	0.0247 lb/in ³	
	@Temperature 204 °C	@Temperature 400 °F	
	0.815 g/cc	0.0295 lb/in ³	
	@Temperature 37.8 °C	@Temperature 100 °F	
Kinematic Viscosity	0.40 cSt	0.40 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
	0.56 cSt	0.56 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
	0.63 cSt	0.63 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
Kinematic Viscosity at 40°C (104°F)	7.7 cSt	7.7 cSt	
Kinematic Viscosity at 100°C (212°F)	2.3 cSt	2.3 cSt	
Molecular Weight	395 g/mol	395 g/mol	Average
Vapor Pressure	0.0703 bar	52.7 torr	
	@Temperature 204 °C	@Temperature 400 °F	
	0.2896 bar	217.2 torr	

Physical Properties	@Temperature 260 °C Metric	@Temperature 500 °F English	Comments
	0.52676 bar	395.10 torr	
	@Temperature 288 °C	@Temperature 550 °F	
	0.5551 bar	416.3 torr	
	@Temperature 316 °C	@Temperature 600 °F	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	2.18 J/g-°C	0.520 BTU/lb-°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
	2.72 J/g-°C	0.651 BTU/lb-°F	
	@Temperature 204 °C	@Temperature 400 °F	
	2.93 J/g-°C	0.700 BTU/lb-°F	
	@Temperature 260 °C	@Temperature 500 °F	
	3.02 J/g-°C	0.721 BTU/lb-°F	
	@Temperature 288 °C	@Temperature 550 °F	
	3.10 J/g-°C	0.740 BTU/lb-°F	
	@Temperature 316 °C	@Temperature 600 °F	
Thermal Conductivity	0.118 W/m-K	0.816 BTU-in/hr-ft²-°F	
	@Temperature 288 °C	@Temperature 550 °F	
	0.118 W/m-K	0.816 BTU-in/hr-ft²-°F	
	@Temperature 316 °C	@Temperature 600 °F	
	0.121 W/m-K	0.840 BTU-in/hr-ft²-°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.125 W/m-K	0.864 BTU-in/hr-ft²-°F	
	@Temperature 204 °C	@Temperature 400 °F	
	1.40 W/m-K	9.72 BTU-in/hr-ft²-°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
Pour Point	-57.8 °C	-72.0 °F	
Flammability Test	370	370	Fire Point, °F
	675	675	Autoignition Temp, °F
Flash Point	165 °C	329 °F	

Descriptive Properties	Value	Comments
Distillation range at 10%	613	
Distillation Range at 90%	784	
Max Bulk Temp (°F)	600	
Max Film Temp (°F)	650	

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