

Duratherm 450 Paraffinic Heat Transfer Fluid

Category : Fluid

Material Notes:

Duratherm 450 - thermal fluid specifically engineered for applications requiring process heating and cooling efficiently between 30°F and 450°F. Economical and thermally stable, Duratherm 450 offers an excellent alternative to costly synthetics and aromatic fluids while delivering precise and efficient cooling down to 30°F. Engineered to withstand the extreme oxidation environment in open systems such as extrusion, blow molding and electrically heated portable systems as well as many others. A proprietary dual stage anti-oxidant system, seal and gasket extender as well as numerous other additives ensures a cleaner, longer running fluid. Information provided by Duratherm.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Duratherm-450-Paraffinic-Heat-Transfer-Fluid.php

Physical Properties	Metric	English	Comments
Density	0.737 g/cc	0.0266 lb/in ³	
	@Temperature 204 °C	@Temperature 400 °F	
Kinematic Viscosity at 40°C (104°F)	0.851 g/cc	0.0307 lb/in ³	
	@Temperature 37.8 °C	@Temperature 100 °F	
Kinematic Viscosity at 100°C (212°F)	4.8 cSt	4.8 cSt	
Kinematic Viscosity at 100°C (212°F)	2.6 cSt	2.6 cSt	
Molecular Weight	372 g/mol	372 g/mol	Average
Vapor Pressure	0.1455 bar	109.1 torr	
	@Temperature 204 °C	@Temperature 400 °F	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	2.13 J/g-°C	0.510 BTU/lb-°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
Specific Heat Capacity	2.64 J/g-°C	0.630 BTU/lb-°F	
	@Temperature 204 °C	@Temperature 400 °F	
Thermal Conductivity	0.130 W/m-K	0.900 BTU-in/hr-ft ² -°F	
	@Temperature 204 °C	@Temperature 400 °F	
Thermal Conductivity	0.142 W/m-K	0.984 BTU-in/hr-ft ² -°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
Pour Point	-45.0 °C	-49.0 °F	
Flammability Test	327	327	Fire Point, °F

Thermal Properties	Metric	English	Comments
Flash Point	150 °C	302 °F	on Temp, °F

Descriptive Properties	Value	Comments
Distillation range at 10%	507	
Distillation Range at 90%	654	
Max Bulk Temp (°F)	450	
Max Film Temp (°F)	500	

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