

Duratherm G Polyalkylene Glycol Heat Transfer Fluid

Category : Fluid , Polymer

Material Notes:

Glycol fluids such as Ucon 500(TM) have been used for years but have, until now offered very little protection from negative elements such as oxidation. Duratherm G also has reduced odors and improved clarity. Information provided by Duratherm.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Duratherm-G-Polyalkylene-Glycol-Heat-Transfer-Fluid.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.963 g/cc	0.963 g/cc	at 60°F
Density	0.787 g/cc	0.0284 lb/in ³	
	@Temperature 260 °C	@Temperature 500 °F	
	0.819 g/cc	0.0296 lb/in ³	
	@Temperature 204 °C	@Temperature 400 °F	
	0.923 g/cc	0.0333 lb/in ³	
	@Temperature 37.8 °C	@Temperature 100 °F	
Kinematic Viscosity	1.35 cSt	1.35 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
Kinematic Viscosity at 40°C (104°F)	34 cSt	34 cSt	
Kinematic Viscosity at 100°C (212°F)	7.1 cSt	7.1 cSt	
Vapor Pressure	0.0103 bar	7.75 torr	
	@Temperature 204 °C	@Temperature 400 °F	
	0.01517 bar	11.38 torr	
	@Temperature 260 °C	@Temperature 500 °F	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.97 J/g-°C	0.470 BTU/lb-°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
	2.30 J/g-°C	0.550 BTU/lb-°F	
	@Temperature 204 °C	@Temperature 400 °F	
	2.34 J/g-°C	0.560 BTU/lb-°F	
	@Temperature 260 °C	@Temperature 500 °F	

Thermal Properties	0.131 W/m-K Metric	0.912 BTU-in/hr-ft ² -°F English	Comments
	@Temperature 260 °C	@Temperature 500 °F	
	0.138 W/m-K	0.960 BTU-in/hr-ft ² -°F	
	@Temperature 204 °C	@Temperature 400 °F	
	0.164 W/m-K	1.14 BTU-in/hr-ft ² -°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
Pour Point	-40.0 °C	-40.0 °F	
Flammability Test	543	543	Fire Point, °F
	704	704	Autoignition Temp, °F
Flash Point	266 °C	511 °F	

Descriptive Properties	Value	Comments
Max Bulk Temp (°F)	500	
Max Film Temp (°F)	550	

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