

Duratherm S Silicone Heat Transfer Fluid

Category : Fluid , Polymer

Material Notes:

Duratherm S - a silicone based heat transfer fluid that is ideally suited for high oxidation or completely exposed systems up to 650°F.

Duratherm S is virtually impervious to oxidation and offers superior protection from fluid degradation. Duratherm S offers the ultimate in fluid protection and is best suited for applications not prone to contamination or leaking. Information provided by Duratherm.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Duratherm-S-Silicone-Heat-Transfer-Fluid.php

Physical Properties	Metric	English	Comments
Density	0.830 g/cc	0.0300 lb/in ³	
	@Temperature 316 °C	@Temperature 600 °F	
	0.841 g/cc	0.0304 lb/in ³	
	@Temperature 288 °C	@Temperature 550 °F	
	0.855 g/cc	0.0309 lb/in ³	
	@Temperature 260 °C	@Temperature 500 °F	
	0.879 g/cc	0.0318 lb/in ³	
	@Temperature 204 °C	@Temperature 400 °F	
	0.958 g/cc	0.0346 lb/in ³	
	@Temperature 37.8 °C	@Temperature 100 °F	
Kinematic Viscosity	3.37 cSt	3.37 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
	3.92 cSt	3.92 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
	4.46 cSt	4.46 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
Kinematic Viscosity at 40°C (104°F)	36.6 cSt	36.6 cSt	
Kinematic Viscosity at 100°C (212°F)	16.1 cSt	16.1 cSt	
Vapor Pressure	0.0124 bar	9.27 torr	
	@Temperature 204 °C	@Temperature 400 °F	
	0.0203 bar	15.2 torr	
	@Temperature 260 °C	@Temperature 500 °F	

Physical Properties	0.0203 bar Metric	15.2 torr English	Comments
	@Temperature 288 °C	@Temperature 550 °F	
	0.06964 bar	52.23 torr	
	@Temperature 316 °C	@Temperature 600 °F	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.69 J/g-°C	0.403 BTU/lb-°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
	1.97 J/g-°C	0.472 BTU/lb-°F	
	@Temperature 204 °C	@Temperature 400 °F	
	2.07 J/g-°C	0.495 BTU/lb-°F	
	@Temperature 260 °C	@Temperature 500 °F	
Thermal Conductivity	2.12 J/g-°C	0.507 BTU/lb-°F	
	@Temperature 288 °C	@Temperature 550 °F	
	2.17 J/g-°C	0.518 BTU/lb-°F	
	@Temperature 316 °C	@Temperature 600 °F	
	0.0726 W/m-K	0.504 BTU-in/hr-ft ² -°F	
	@Temperature 316 °C	@Temperature 600 °F	
Maximum Service Temperature, Air	0.0778 W/m-K	0.540 BTU-in/hr-ft ² -°F	
	@Temperature 288 °C	@Temperature 550 °F	
	0.0830 W/m-K	0.576 BTU-in/hr-ft ² -°F	
Pour Point	@Temperature 260 °C	@Temperature 500 °F	
	0.0951 W/m-K	0.660 BTU-in/hr-ft ² -°F	
	@Temperature 204 °C	@Temperature 400 °F	
Flammability Test	0.130 W/m-K	0.900 BTU-in/hr-ft ² -°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
Flash Point	343 °C	650 °F	
Flammability Test	636	636	Fire Point, °F
Flash Point	818	818	Autoignition Temp, °F
Flash Point	324 °C	615 °F	

Descriptive Properties	Value	Comments
Distillation range at 10%	922	
Distillation Range at 90%	1255	
Max Bulk Temp (°F)	650	
Max Film Temp (°F)	700	

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