

Duratherm 630 Paraffinic Heat Transfer Fluid

Category : Fluid

Material Notes:

Duratherm 630 - rated to 630°F it has the highest rated bulk temperature of petroleum based thermal fluids. Duratherm 630 is engineered for applications requiring high temperature stability (630°F) and offers one of the only environmentally friendly alternatives to aromatic fluids at a fraction of the cost. Duratherm 630 is also heavily additized to offer years of service and superior protection from elements such as oxidation and is ideal for wide range of applications including, high temperature batch processing, chemical reactions, pharmaceutical and resin manufacturing. Information provided by Duratherm.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Duratherm-630-Paraffinic-Heat-Transfer-Fluid.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.864 g/cc	0.864 g/cc	at 60°F
Density	0.650 g/cc	0.0235 lb/in ³	
	@Temperature 316 °C	@Temperature 600 °F	
	0.676 g/cc	0.0244 lb/in ³	
	@Temperature 288 °C	@Temperature 550 °F	
	0.687 g/cc	0.0248 lb/in ³	
	@Temperature 260 °C	@Temperature 500 °F	
	0.732 g/cc	0.0264 lb/in ³	
	@Temperature 204 °C	@Temperature 400 °F	
	0.836 g/cc	0.0302 lb/in ³	
	@Temperature 37.8 °C	@Temperature 100 °F	
Kinematic Viscosity	0.73 cSt	0.73 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
	0.88 cSt	0.88 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
	0.98 cSt	0.98 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
Kinematic Viscosity at 40°C (104°F)	33.2 cSt	33.2 cSt	
Kinematic Viscosity at 100°C (212°F)	5.9 cSt	5.9 cSt	
Molecular Weight	395 g/mol	395 g/mol	Average

Physical Properties	0.0165 bar Metric	12.4 torr English	Comments
	@Temperature 204 °C	@Temperature 400 °F	
	0.0379 bar	28.4 torr	
	@Temperature 260 °C	@Temperature 500 °F	
	0.0379 bar	28.4 torr	
	@Temperature 288 °C	@Temperature 550 °F	
	0.1531 bar	114.8 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	0.601 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	
	2.81 J/g-°C	0.671 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	0.128 W/m-K	0.888 BTU-in/hr-ft ² -°F	
	@Temperature 288 °C	@Temperature 550 °F	
	0.131 W/m-K	0.912 BTU-in/hr-ft ² -°F	
	@Temperature 316 °C	@Temperature 600 °F	
	0.133 W/m-K	0.924 BTU-in/hr-ft ² -°F	
	@Temperature 204 °C	@Temperature 400 °F	
	0.135 W/m-K	0.936 BTU-in/hr-ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.1453 W/m-K	1.008 BTU-in/hr-ft ² -°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
Pour Point	-18.3 °C	-1.00 °F	

Flammability Test Thermal Properties	472 Metric	472 English	Fire Point, °F Comments
	693	693	Autoignition Temp, °F
Flash Point	229 °C	444 °F	

Descriptive Properties	Value	Comments
Distillation range at 10%	727	
Distillation Range at 90%	902	
Max Bulk Temp (°F)	630	
Max Film Temp (°F)	670	

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