

Paratherm Corporation Paratherm™ GLT™ Heat Transfer Fluid

Category : Fluid

Material Notes:

Paratherm GLT™ Heat Transfer Fluid is an alkylated aromatic based heat transfer fluid formulated for closed loop liquid phase heating systems to 550°F using fired heaters and to 575°F in waste-heat recovery systems. Applications Gas processing Liquid terminal tank heating Asphalt plants Plastic production Information Provided by Paratherm Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Paratherm-Corporation-Paratherm-GLT-Heat-Transfer-Fluid.php

Physical Properties	Metric	English	Comments
Density	0.673 g/cc	0.0243 lb/in ³	
	@Temperature 316 °C	@Temperature 600 °F	
	0.705 g/cc	0.0255 lb/in ³	
	@Temperature 260 °C	@Temperature 500 °F	
	0.753 g/cc	0.0272 lb/in ³	
	@Temperature 204 °C	@Temperature 400 °F	
	0.785 g/cc	0.0284 lb/in ³	
	@Temperature 149 °C	@Temperature 300 °F	
	0.833 g/cc	0.0301 lb/in ³	
@Temperature 93.3 °C	@Temperature 200 °F		
0.865 g/cc	0.0312 lb/in ³		
@Temperature 37.8 °C	@Temperature 100 °F		
0.897 g/cc	0.0324 lb/in ³		
@Temperature -17.8 °C	@Temperature 0.000 °F		
Viscosity	0.48 cP	0.48 cP	
	@Temperature 249 °C	@Temperature 480 °F	
	0.53 cP	0.53 cP	
	@Temperature 238 °C	@Temperature 460 °F	
	0.58 cP	0.58 cP	
@Temperature 227 °C	@Temperature 440 °F		
0.63 cP	0.63 cP		
@Temperature 216 °C	@Temperature 420 °F		

Physical Properties	0.71 cP Metric	0.71 cP English	Comments
	@Temperature 204 °C	@Temperature 400 °F	
	0.80 cP	0.80 cP	
	@Temperature 193 °C	@Temperature 380 °F	
	0.89 cP	0.89 cP	
	@Temperature 182 °C	@Temperature 360 °F	
	1.0 cP	1.0 cP	
	@Temperature 171 °C	@Temperature 340 °F	
	1.1 cP	1.1 cP	
	@Temperature 160 °C	@Temperature 320 °F	
	1.3 cP	1.3 cP	
	@Temperature 149 °C	@Temperature 300 °F	
	1.5 cP	1.5 cP	
	@Temperature 138 °C	@Temperature 280 °F	
	1.8 cP	1.8 cP	
	@Temperature 127 °C	@Temperature 260 °F	
	2.2 cP	2.2 cP	
	@Temperature 116 °C	@Temperature 240 °F	
	2.6 cP	2.6 cP	
	@Temperature 104 °C	@Temperature 220 °F	
	3.2 cP	3.2 cP	
	@Temperature 93.3 °C	@Temperature 200 °F	
	4.2 cP	4.2 cP	
	@Temperature 82.2 °C	@Temperature 180 °F	
	5.7 cP	5.7 cP	
	@Temperature 71.1 °C	@Temperature 160 °F	
	7.8 cP	7.8 cP	
	@Temperature 60.0 °C	@Temperature 140 °F	
	12 cP	12 cP	
	@Temperature 48.9 °C	@Temperature 120 °F	
	18 cP	18 cP	

Physical Properties	Metric	English	Comments
	@Temperature 37.8 °C	@Temperature 100 °F	
	30 cP	30 cP	
	@Temperature 26.7 °C	@Temperature 80.0 °F	
	54 cP	54 cP	
	@Temperature 15.6 °C	@Temperature 60.0 °F	
	106 cP	106 cP	
	@Temperature 4.44 °C	@Temperature 40.0 °F	
	254 cP	254 cP	
	@Temperature -6.67 °C	@Temperature 20.0 °F	
	720 cP	720 cP	
	@Temperature -17.8 °C	@Temperature 0.000 °F	
Molecular Weight	330 g/mol	330 g/mol	Average
Vapor Pressure	0.00896 bar	6.72 torr	
	@Temperature 171 °C	@Temperature 340 °F	
	0.0200 bar	15.0 torr	
	@Temperature 193 °C	@Temperature 380 °F	
	0.0393 bar	29.5 torr	
	@Temperature 216 °C	@Temperature 420 °F	
	0.0758 bar	56.9 torr	
	@Temperature 238 °C	@Temperature 460 °F	
	0.131 bar	98.3 torr	
	@Temperature 260 °C	@Temperature 500 °F	
	0.221 bar	166 torr	
	@Temperature 282 °C	@Temperature 540 °F	
	0.365 bar	274 torr	
	@Temperature 304 °C	@Temperature 580 °F	
Thermal Properties	Metric	English	Comments
CTE, linear	324 µm/m-°C	180 µin/in-°F	converted from volume expansion
Specific Heat Capacity	1.80 J/g-°C	0.430 BTU/lb-°F	
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Thermal Properties	Metric ^{J/g-°C}	English ^{BTU/lb-°F}	Comments
	@Temperature 37.8 °C	@Temperature 100 °F	
	2.18 J/g-°C	0.520 BTU/lb-°F	
	@Temperature 93.3 °C	@Temperature 200 °F	
	2.34 J/g-°C	0.560 BTU/lb-°F	
	@Temperature 149 °C	@Temperature 300 °F	
	2.55 J/g-°C	0.610 BTU/lb-°F	
	@Temperature 204 °C	@Temperature 400 °F	
	2.72 J/g-°C	0.650 BTU/lb-°F	
	@Temperature 260 °C	@Temperature 500 °F	
	2.89 J/g-°C	0.690 BTU/lb-°F	
	@Temperature 316 °C	@Temperature 600 °F	
Thermal Conductivity	0.0882 W/m-K	0.612 BTU-in/hr-ft ² -°F	
	@Temperature 316 °C	@Temperature 600 °F	
	0.0968 W/m-K	0.672 BTU-in/hr-ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.104 W/m-K	0.720 BTU-in/hr-ft ² -°F	
	@Temperature 204 °C	@Temperature 400 °F	
	0.112 W/m-K	0.780 BTU-in/hr-ft ² -°F	
	@Temperature 149 °C	@Temperature 300 °F	
	0.119 W/m-K	0.828 BTU-in/hr-ft ² -°F	
	@Temperature 93.3 °C	@Temperature 200 °F	
	0.128 W/m-K	0.888 BTU-in/hr-ft ² -°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
	0.135 W/m-K	0.936 BTU-in/hr-ft ² -°F	
	@Temperature -17.8 °C	@Temperature 0.000 °F	
Maximum Service Temperature, Air	288 °C	550 °F	Fired Heaters
	302 °C	575 °F	All Others
	316 °C	600 °F	Film Temperature
Minimum Service Temperature, Air	-7.78 °C	18.0 °F	start-up temp at 300 cPs

Thermal Properties	35.0 °C Metric	95.0 °F English	operating temp at 20 cPs Comments
Pour Point	<= -34.4 °C	<= -30.0 °F	D97
Flash Point	>= 171 °C	>= 340 °F	Closed Cup (D93)
	>= 182 °C	>= 360 °F	Open Cup (D92)

Descriptive Properties	Value	Comments
Appearance	Clear Amber Colored	
Base	Alkylated Aromatic	
Odor	Sweet	

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