

Paratherm Corporation Paratherm™ HR™ Heat Transfer Fluid

Category : Fluid

Material Notes:

Paratherm HR™ Heat Transfer Fluid is an alkylated-aromatic based heat transfer fluid formulated for closed loop liquid phase heating to 650°F in fired heaters and 675°F in waste heat recovery and full convection heaters. Applications Gas processing Chemical processes Waste oil recovery Biodiesel production Plastic processing Information Provided by Paratherm Corporation

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.689 g/cc	0.0249 lb/in ³	
	@Temperature 371 °C	@Temperature 700 °F	
	0.737 g/cc	0.0266 lb/in ³	
	@Temperature 316 °C	@Temperature 600 °F	
	0.769 g/cc	0.0278 lb/in ³	
	@Temperature 260 °C	@Temperature 500 °F	
	0.817 g/cc	0.0295 lb/in ³	
	@Temperature 204 °C	@Temperature 400 °F	
	0.865 g/cc	0.0312 lb/in ³	
	@Temperature 149 °C	@Temperature 300 °F	
Viscosity	0.897 g/cc	0.0324 lb/in ³	
	@Temperature 93.3 °C	@Temperature 200 °F	
	0.945 g/cc	0.0341 lb/in ³	
	@Temperature 37.8 °C	@Temperature 100 °F	
	0.993 g/cc	0.0359 lb/in ³	
	@Temperature -17.8 °C	@Temperature 0.000 °F	
Viscosity	0.32 cP	0.32 cP	
	@Temperature 371 °C	@Temperature 700 °F	
	0.34 cP	0.34 cP	
	@Temperature 357 °C	@Temperature 675 °F	
	0.36 cP	0.36 cP	
	@Temperature 343 °C	@Temperature 650 °F	

Physical Properties	0.38 cP Metric	0.38 cP English	Comments
	@Temperature 329 °C	@Temperature 625 °F	
	0.41 cP	0.41 cP	
	@Temperature 316 °C	@Temperature 600 °F	
	0.44 cP	0.44 cP	
	@Temperature 302 °C	@Temperature 575 °F	
	0.47 cP	0.47 cP	
	@Temperature 288 °C	@Temperature 550 °F	
	0.50 cP	0.50 cP	
	@Temperature 274 °C	@Temperature 525 °F	
	0.54 cP	0.54 cP	
	@Temperature 260 °C	@Temperature 500 °F	
	0.59 cP	0.59 cP	
	@Temperature 246 °C	@Temperature 475 °F	
	0.64 cP	0.64 cP	
	@Temperature 232 °C	@Temperature 450 °F	
	0.71 cP	0.71 cP	
	@Temperature 218 °C	@Temperature 425 °F	
	0.78 cP	0.78 cP	
	@Temperature 204 °C	@Temperature 400 °F	
	0.87 cP	0.87 cP	
	@Temperature 191 °C	@Temperature 375 °F	
	0.98 cP	0.98 cP	
	@Temperature 177 °C	@Temperature 350 °F	
	1.1 cP	1.1 cP	
	@Temperature 163 °C	@Temperature 325 °F	
	1.3 cP	1.3 cP	
	@Temperature 149 °C	@Temperature 300 °F	
	1.5 cP	1.5 cP	
	@Temperature 135 °C	@Temperature 275 °F	
	1.8 cP	1.8 cP	

Physical Properties	Metric	English	Comments
	2.1 cP @Temperature 121 °C	2.1 cP @Temperature 250 °F	
	@Temperature 107 °C	@Temperature 225 °F	
	2.6 cP @Temperature 93.3 °C	2.6 cP @Temperature 200 °F	
	@Temperature 79.4 °C	@Temperature 175 °F	
	3.8 cP @Temperature 79.4 °C	3.8 cP @Temperature 175 °F	
	@Temperature 65.6 °C	@Temperature 150 °F	
	5.1 cP @Temperature 65.6 °C	5.1 cP @Temperature 150 °F	
	@Temperature 51.7 °C	@Temperature 125 °F	
	7.9 cP @Temperature 51.7 °C	7.9 cP @Temperature 125 °F	
	@Temperature 37.8 °C	@Temperature 100 °F	
	12 cP @Temperature 37.8 °C	12 cP @Temperature 100 °F	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	22 cP @Temperature 23.9 °C	22 cP @Temperature 75.0 °F	
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	52 cP @Temperature 10.0 °C	52 cP @Temperature 50.0 °F	
	@Temperature -3.89 °C	@Temperature 25.0 °F	
	133 cP @Temperature -3.89 °C	133 cP @Temperature 25.0 °F	
	@Temperature -17.8 °C	@Temperature 0.000 °F	
	546 cP @Temperature -17.8 °C	546 cP @Temperature 0.000 °F	
Molecular Weight	240 g/mol	240 g/mol	Average
Vapor Pressure	0.00758 bar @Temperature 163 °C	5.69 torr @Temperature 325 °F	
	0.0338 bar @Temperature 204 °C	25.4 torr @Temperature 400 °F	
	0.117 bar @Temperature 246 °C	87.8 torr @Temperature 475 °F	
	0.345 bar @Temperature 288 °C	259 torr @Temperature 550 °F	

Physical Properties	0.896 bar Metric	672 torr English	Comments
	@Temperature 329 °C	@Temperature 625 °F	
	2.00 bar	1500 torr	
	@Temperature 371 °C	@Temperature 700 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	324 µm/m-°C	180 µin/in-°F	converted from volume expansion
Specific Heat Capacity	1.84 J/g-°C	0.440 BTU/lb-°F	
	@Temperature -17.8 °C	@Temperature 0.000 °F	
	1.97 J/g-°C	0.470 BTU/lb-°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
	2.09 J/g-°C	0.500 BTU/lb-°F	
	@Temperature 93.3 °C	@Temperature 200 °F	
	2.22 J/g-°C	0.530 BTU/lb-°F	
	@Temperature 149 °C	@Temperature 300 °F	
	2.34 J/g-°C	0.560 BTU/lb-°F	
	@Temperature 204 °C	@Temperature 400 °F	
Thermal Conductivity	2.47 J/g-°C	0.590 BTU/lb-°F	
	@Temperature 260 °C	@Temperature 500 °F	
	2.59 J/g-°C	0.620 BTU/lb-°F	
	@Temperature 316 °C	@Temperature 600 °F	
	2.72 J/g-°C	0.650 BTU/lb-°F	
	@Temperature 371 °C	@Temperature 700 °F	
	0.0813 W/m-K	0.564 BTU-in/hr-ft ² -°F	
	@Temperature 371 °C	@Temperature 700 °F	
	0.0916 W/m-K	0.636 BTU-in/hr-ft ² -°F	
	@Temperature 316 °C	@Temperature 600 °F	
0.0986 W/m-K	0.684 BTU-in/hr-ft ² -°F		
@Temperature 260 °C	@Temperature 500 °F		
0.105 W/m-K	0.732 BTU-in/hr-ft ² -°F		
@Temperature 204 °C	@Temperature 400 °F		
0.111 W/m-K	0.768 BTU-in/hr-ft ² -°F		

Thermal Properties	Metric	English	Comments
	0.114 W/m-K @Temperature 149 °C	0.792 BTU-in/hr-ft ² -°F @Temperature 300 °F	
	@Temperature 93.3 °C	@Temperature 200 °F	
	0.118 W/m-K @Temperature -17.8 °C	0.816 BTU-in/hr-ft ² -°F @Temperature 0.000 °F	
	@Temperature 37.8 °C	@Temperature 100 °F	
Maximum Service Temperature, Air	343 °C	650 °F	Fired Heaters
	357 °C	675 °F	All Others
	371 °C	700 °F	Film Temperature
Minimum Service Temperature, Air	-10.6 °C	13.0 °F	start-up temp at 300 cPs
	25.0 °C	77.0 °F	operating temp at 20 cPs
Pour Point	<= -34.4 °C	<= -30.0 °F	D97

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