

Paratherm Corporation Paratherm™ HE Heat Transfer Fluid

Category : Fluid

Material Notes:

Paratherm HE® is a high flash and fire point heat transfer fluid. Engineered for higher thermal and oxidative stability, it is efficient and cost effective. Its greater purity allows it to strongly resist degradation while holding thermal properties and maintaining efficiency. This provides for low maintenance and solid performance over an extended operating life. Non-toxic, the HE fluid is safe to use and easy to dispose. It can be safely combined with spent lubricating oils and recycled locally. Information provided by Paratherm Corporation

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.865 g/cc	0.0313 lb/in ³	
	@Temperature 15.6 °C	@Temperature 60.0 °F	
Kinematic Viscosity at 40°C (104°F)	40.25 cSt	40.25 cSt	ASTM D445
Molecular Weight	445 g/mol	445 g/mol	average; ASTM D2502
Vapor Pressure	0.00002689 bar	0.02017 torr	
	@Temperature 149 °C	@Temperature 300 °F	
	0.0001330 bar	0.09979 torr	
	@Temperature 177 °C	@Temperature 350 °F	
	0.000669 bar	0.502 torr	
	@Temperature 204 °C	@Temperature 400 °F	
	0.002668 bar	2.001 torr	
	@Temperature 232 °C	@Temperature 450 °F	
0.009308 bar	@Temperature 260 °C	6.981 torr	
	@Temperature 288 °C	20.0 torr	
	@Temperature 316 °C	45.0 torr	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	179.4 J/g	77.18 BTU/lb	calculated
	1070 μm/m-°C	592 μin/in-°F	

CTE linear Thermal Properties	Metric @ Temperature 20.0 °C	English @ Temperature 68.0 °F	Comments
Boiling Point	415 °C	779 °F	atmospheric boiling point, 10% fraction; ASTM D1160
Maximum Service Temperature, Air	316 °C	600 °F	optimum use range
	<= 343 °C	<= 650 °F	max. recommended film temperature
Minimum Service Temperature, Air	65.6 °C	150 °F	optimum use range
Pour Point	-15.0 °C	5.00 °F	ASTM D97
Flash Point	227 °C	440 °F	coc; ASTM D92

Optical Properties	Metric	English	Comments
Refractive Index	1.4722	1.4722	ASTM D1747

Electrical Properties	Metric	English	Comments
Dielectric Strength	>= 3.00 kV/mm	>= 76.2 kV/in	

Descriptive Properties	Value	Comments
API Gravity	31.7	ASTM D287
Appearance	transparent, pale yellow	
Autoignition	700°F	ASTM D2155
Color	1	ASTM D1500
Corrosivity	1A	3hr Cu Strip @ 100°C, ASTM D130
Feedstock	paraffinic hydrocarbon	
Fire point	500°F	ASTM D92, coc
Heat of Combustion	19550 BTU/lb	ASTM D92
Odor	faint (oily)	
Pumpability	20°F	centrifugal at 2000 centipoise
Sulfur Content	0.002 Mass %	J-140
Total Acid Number	0.01	ASTM D664

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