

Solvay Specialty Polymers Galden® HT200 PFPE Heat Transfer Fluid

Category : Fluid , Polymer

Material Notes:

Galden® HT grades are specifically recommended for use as heat transfer fluids. Galden® PFPE is a line of high-performance, inert, fluorinated fluids. Various grades, with a variety of service temperature ranges, are available. Uses include heat transfer, electronic reliability testing, vapor phase soldering, solvents, and acid spill mitigation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Galden-HT200-PFPE-Heat-Transfer-Fluid.php

Physical Properties	Metric	English	Comments
Density	1.79 g/cc	0.0647 lb/in ³	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Solubility of Water	0.0014 %	0.0014 %	
Kinematic Viscosity	2.4 cSt	2.4 cSt	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	4.97 cSt	4.97 cSt	
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	11.65 cSt	11.65 cSt	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Molecular Weight	870 g/mol	870 g/mol	average
Vapor Pressure	0.000267 bar	0.200 torr	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Surface Tension	19 dynes/cm	19 dynes/cm	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	62.8 J/g	27.0 BTU/lb	at boiling point
	@Temperature 200 °C	@Temperature 392 °F	
CTE, linear	367 µm/m-°C	204 µin/in-°F	converted from volumetric expansion of 0.0011 cm ³ /cm ³ -°C
Specific Heat Capacity	0.960 J/g-°C	0.229 BTU/lb-°F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	W/m-K	B.TU-in/hr-ft ² -in	
Boiling Point	200 Â°C	392 Â°F	
Maximum Service Temperature, Air	200 Â°C	392 Â°F	as heat transfer fluid
Minimum Service Temperature, Air	-25.0 Â°C	-13.0 Â°F	as heat transfer fluid
Pour Point	<= -85.0 Â°C	<= -121 Â°F	

Optical Properties	Metric	English	Comments
Refractive Index	1.281	1.281	

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+15 ohm-cm	6.00e+15 ohm-cm	
Dielectric Constant	1.94	1.94	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	15.7 kV/mm	399 kV/in	2.54 mm gap
Dissipation Factor	0.00020	0.00020	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Descriptive Properties	Value	Comments
Solubility of Air (cm ³ gas / 100 cm ³ liquid)	26	

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