

Solvay Specialty Polymers Galden® HT170 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-HT170-PFPE-Heat-Transfer-Fluid.php

Physical Properties	Metric	English	Comments
Density	1.77 g/cc	0.0639 lb/in ³	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Solubility of Water	0.0014 %	0.0014 %	
Kinematic Viscosity	1.8 cSt	1.8 cSt	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	3.41 cSt	3.41 cSt	
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	7.11 cSt	7.11 cSt	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	21.14 cSt	21.14 cSt	
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Molecular Weight	760 g/mol	760 g/mol	average
Vapor Pressure	0.00107 bar	0.800 torr	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Surface Tension	18 dynes/cm	18 dynes/cm	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	66.9 J/g	28.8 BTU/lb	
	@Temperature 170 °C	@Temperature 338 °F	at boiling point
	367 µm/m-°C	204 µin/in-°F	converted from volumetric expansion of 0.0011

CTE linear Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.960 J/g-Â°C	0.229 BTU/lb-Â°F	
Thermal Conductivity	0.0650 W/m-K	0.451 BTU-in/hr-ftÂ²-Â°F	
Boiling Point	170 Â°C	338 Â°F	
Maximum Service Temperature, Air	170 Â°C	338 Â°F	as heat transfer fluid
Minimum Service Temperature, Air	-35.0 Â°C	-31.0 Â°F	as heat transfer fluid
Pour Point	<= -97.0 Â°C	<= -143 Â°F	

Optical Properties	Metric	English	Comments
Refractive Index	1.281	1.281	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+15 ohm-cm	1.50e+15 ohm-cm	
Dielectric Constant	1.9 @Frequency 1000 Hz	1.9 @Frequency 1000 Hz	
Dielectric Strength	15.7 kV/mm	399 kV/in	2.54 mm gap
Dissipation Factor	0.00020 @Frequency 1000 Hz	0.00020 @Frequency 1000 Hz	

Descriptive Properties	Value	Comments
Solubility of Air (cmÂ³ gas / 100 cmÂ³ liquid)	26	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China