

3M Fluorinert™ FC-43 Electronic Liquid

Category : Fluid

Material Notes:

3M™ Fluorinert™ Liquid FC-43 is a non-conductive, thermally and chemically stable liquid ideal for many single phase heat transfer fluid applications, especially in the electronics and semiconductor industry for testers, CVD and TFT manufacturing. Features and Benefits Thermal stability Chemical stability Wide liquid range Non-conductive Narrow boiling range Compatibility Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Fluorinert-FC-43-Electronic-Liquid.php

Physical Properties	Metric	English	Comments
Density	1.86 g/cc	0.0672 lb/in ³	Liquid
Solubility in Water	<= 0.00050 %	<= 0.00050 %	
Solubility	7.0 ppm	7.0 ppm	
Viscosity	4.7 cP	4.7 cP	Absolute
Kinematic Viscosity	2.5 cSt	2.5 cSt	
Molecular Weight	670 g/mol	670 g/mol	
Vapor Pressure	0.00192 bar	1.44 torr	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	70.0 J/g	30.1 BTU/lb	Latent, at normal boiling point
CTE, linear	1200 µm/m-°C	667 µin/in-°F	
Specific Heat Capacity	1.10 J/g-°C	0.263 BTU/lb-°F	Liquid
Thermal Conductivity	0.0650 W/m-K	0.451 BTU-in/hr-ft ² -°F	Liquid
Boiling Point	174 °C @Pressure 0.101 MPa	345 °F @Pressure 14.7 psi	
Pour Point	-50.0 °C	-58.0 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.291	1.291	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.40e+15 ohm-cm	3.40e+15 ohm-cm	

Electrical Properties	Metric	English	Comments
Dielectric Strength	1.65 kV/mm	42.0 kV/in	0.1" gap

Chemical Properties	Metric	English	Comments
Critical Pressure	11.3 bar	8480 torr	Estimated
Critical Temperature	293 °C	559 °F	Estimated

Descriptive Properties	Value	Comments
Color	Clear, colorless	

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