

3M Fluorinert™ FC-40 Electronic Liquid

Category : Fluid

Material Notes:

3M™ Fluorinert™ Liquid FC-40 is a non-conductive, thermally and chemically stable fluid ideal for 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-40-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	4.1 cP	4.1 cP	Absolute
Kinematic Viscosity	2.2 cSt	2.2 cSt	
Molecular Weight	650 g/mol	650 g/mol	
Vapor Pressure	0.00287 bar	2.15 torr	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	69.0 J/g	29.7 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	165 °C @Pressure 0.101 MPa	329 °F @Pressure 14.7 psi	
Pour Point	-57.0 °C	-70.6 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.29	1.29	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	4.00e+15 ohm-cm	4.00e+15 ohm-cm	

Electrical Properties	Metric	English	Comments
Dielectric Strength	1.81 kV/mm	46.0 kV/in	0.1" gap

Chemical Properties	Metric	English	Comments
Critical Pressure	11.8 bar	8850 torr	Estimated
Critical Temperature	270 °C	518 °F	Calculated

Descriptive Properties	Value	Comments
Color	Clear, colorless	

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