

3M Fluorinert™ FC-72 Electronic Liquid

Category : Fluid

Material Notes:

3M™ Fluorinert™ Liquid FC-72 is a non-conductive, thermally and chemically stable liquid ideal for many direct contact single and two phase low temperature heat transfer applications, in testing, power electronics and other electronic applications. 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-72-Electronic-Liquid.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	Liquid
Solubility in Water	<= 0.00050 %	<= 0.00050 %	
Solubility	<= 7.0 ppm	<= 7.0 ppm	
Viscosity	0.64 cP	0.64 cP	Absolute
Kinematic Viscosity	0.38 cSt	0.38 cSt	
Molecular Weight	338 g/mol	338 g/mol	
Vapor Pressure	0.0390 bar	29.3 torr	
Surface Tension	10 dynes/cm	10 dynes/cm	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	88.0 J/g	37.9 BTU/lb	Latent, at normal boiling point
CTE, linear	1560 μm/m-°C	867 μin/in-°F	
Specific Heat Capacity	1.10 J/g-°C	0.263 BTU/lb-°F	Liquid
Thermal Conductivity	0.0570 W/m-K	0.396 BTU-in/hr-ft ² -°F	Liquid
Boiling Point	56.0 °C	133 °F	
	@Pressure 0.101 MPa	@Pressure 14.7 psi	
Pour Point	-90.0 °C	-130 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.251	1.251	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Dielectric Constant	1.75	1.75	
Dielectric Strength	1.50 kV/mm	38.0 kV/in	0.1" gap

Chemical Properties	Metric	English	Comments
Critical Pressure	18.3 bar	13700 torr	Estimated
Critical Temperature	176 °C	349 °F	Estimated

Descriptive Properties	Value	Comments
Color	Clear, colorless	

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