

3M Fluorinert™ FC-70 Electronic Liquid

Category : Fluid

Material Notes:

Fluorinert™ Liquid FC-70 a non-conductive, thermally and chemically stable liquid that offers a high boiling point (215 deg C), it is ideal for many electronics single and two phase heat transfer applications, including vapor phase reflow soldering. 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-70-Electronic-Liquid.php

Physical Properties	Metric	English	Comments
Density	1.94 g/cc	0.0701 lb/in ³	Liquid
Solubility in Water	<= 0.00050 %	<= 0.00050 %	
Solubility	8.0 ppm	8.0 ppm	
Viscosity	24 cP	24 cP	Absolute
Kinematic Viscosity	12 cSt	12 cSt	
Molecular Weight	820 g/mol	820 g/mol	
Vapor Pressure	0.000150 bar	0.113 torr	
Surface Tension	18 dynes/cm	18 dynes/cm	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	69.0 J/g	29.7 BTU/lb	Latent, at normal boiling point
CTE, linear	1000 μm/m-°C	556 μin/in-°F	
Specific Heat Capacity	1.10 J/g-°C	0.263 BTU/lb-°F	Liquid
Thermal Conductivity	0.0700 W/m-K	0.486 BTU-in/hr-ft ² -°F	Liquid
Boiling Point	215 °C @Pressure 0.101 MPa	419 °F @Pressure 14.7 psi	
Pour Point	-25.0 °C	-13.0 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.30	1.30	

Electrical Properties	Metric	English	Comments
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Electrical Resistivity Electrical Properties	2.30e+15 ohm-cm Metric	2.30e+15 ohm-cm English	Comments
Dielectric Constant	1.98	1.98	
Dielectric Strength	1.57 kV/mm	40.0 kV/in	0.1" gap

Chemical Properties	Metric	English	Comments
Critical Pressure	10.3 bar	7730 torr	Estimated
Critical Temperature	335 °C	635 °F	Estimated

Descriptive Properties	Value	Comments
Color	Clear, colorless	

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