

## 3M Fluorinert™ FC-3283 Electronic Liquid

Category : Fluid

### Material Notes:

3M™ Fluorinert™ Liquid FC-3283 is a non-conductive, thermally and chemically stable liquid ideal for use in single phase heat transfer applications, especially in the electronics and semiconductor industry for etchers, ion implanters, testers, etc. 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-3283-Electronic-Liquid.php](http://www.lookpolymers.com/polymer_3M-Fluorinert-FC-3283-Electronic-Liquid.php)

Physical Properties	Metric	English	Comments
Density	1.82 g/cc	0.0658 lb/in <sup>3</sup>	Liquid
Solubility in Water	<= 0.00050 %	<= 0.00050 %	
Solubility	7.0 ppm	7.0 ppm	
Viscosity	1.4 cP	1.4 cP	Absolute
Kinematic Viscosity	0.75 cSt	0.75 cSt	
Molecular Weight	521 g/mol	521 g/mol	
Vapor Pressure	0.0144 bar	10.8 torr	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	78.0 J/g	33.6 BTU/lb	Latent, at normal boiling point
CTE, linear	1400 μm/m-°C	778 μin/in-°F	
Specific Heat Capacity	1.10 J/g-°C	0.263 BTU/lb-°F	Liquid
Thermal Conductivity	0.0660 W/m-K	0.458 BTU-in/hr-ft <sup>2</sup> -°F	Liquid
Boiling Point	128 °C @Pressure 0.101 MPa	262 °F @Pressure 14.7 psi	
Pour Point	-50.0 °C	-58.0 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.00e+15 ohm-cm	5.00e+15 ohm-cm	
Dielectric Constant	1.89	1.89	
Dielectric Strength	1.69 kV/mm	43.0 kV/in	0.1" gap

Descriptive Properties	Value	Comments
Color	Clear, colorless	

## Contact Songhan Plastic Technology Co.,Ltd.

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