

3M Novec™ 7500 Engineered Fluid

Category : Fluid

Material Notes:

3M™ Novec™ 7500 is a non-flammable fluid with a very low global warming potential (GWP.) Its' excellent inerting and dielectric properties make it a viable replacement for higher GWP fluids such as PFCs and PFPEs in a wide variety of applications. Features and Benefits: Wide range of thermal management applications Wide liquid range Non-flammable Non-conductive Compatible with plastics Low toxicity Low Global Warming Potential (GWP) Zero ozone depletion potential VOC-exempt solvent (US EPA) Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Novec-7500-Engineered-Fluid.php

Physical Properties	Metric	English	Comments
Density	1.614 g/cc	0.05831 lb/in³	Liquid
	1.40 g/cc	0.0506 lb/in³	
	@Temperature 130 °C	@Temperature 266 °F	
	1.60 g/cc	0.0578 lb/in³	
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Kinematic Viscosity	1.81 g/cc	0.0654 lb/in³	
	@Temperature -70.0 °C	@Temperature -94.0 °F	
	0.28 cSt	0.28 cSt	
	@Temperature 110 °C	@Temperature 230 °F	
	0.50 cSt	0.50 cSt	
Viscosity Measure	@Temperature 50.0 °C	@Temperature 122 °F	
	15 cSt	15 cSt	
	@Temperature -10.0 °C	@Temperature 14.0 °F	
	50 cSt	50 cSt	
	@Temperature -80.0 °C	@Temperature -112 °F	
Molecular Weight	414 g/mol	414 g/mol	
Surface Tension	16.2 dynes/cm	16.2 dynes/cm	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	88.5 J/g	38.1 BTU/lb	
	@Pressure 0.101 MPa	@Pressure 14.7 psi	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.980 J/g-°C	0.234 BTU/lb-°F	
	@Temperature -70.0 °C	@Temperature -94.0 °F	
	1.06 J/g-°C	0.253 BTU/lb-°F	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	1.14 J/g-°C	0.272 BTU/lb-°F	
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.21 J/g-°C	0.289 BTU/lb-°F	
	@Temperature 80.0 °C	@Temperature 176 °F	
	1.29 J/g-°C	0.308 BTU/lb-°F	
	@Temperature 130 °C	@Temperature 266 °F	
Thermal Conductivity	0.0530 W/m-K	0.368 BTU-in/hr-ft²-°F	
	@Temperature 130 °C	@Temperature 266 °F	
	0.0580 W/m-K	0.403 BTU-in/hr-ft²-°F	
	@Temperature 80.0 °C	@Temperature 176 °F	
	0.0650 W/m-K	0.451 BTU-in/hr-ft²-°F	
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.0720 W/m-K	0.500 BTU-in/hr-ft²-°F	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.0830 W/m-K	0.576 BTU-in/hr-ft²-°F	
	@Temperature -70.0 °C	@Temperature -94.0 °F	
Boiling Point	128 °C	262 °F	
	@Pressure 0.101 MPa	@Pressure 14.7 psi	
Pour Point	-100 °C	-148 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.20e+8 ohm-cm	2.20e+8 ohm-cm	
Dielectric Constant	5.8	5.8	
Dielectric Strength	1.38 kV/mm	35.0 kV/in	0.1" gap

Chemical Properties	Metric	English	Comments
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Critical Pressure Chemical Properties	15.5 bar Metric	11600 torr English	Comments
Critical Temperature	216 °C	421 °F	

Descriptive Properties	Value	Comments
Solubility	<3 ppm	of Fluid in Water

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