

## Paratherm Corporation Paratherm™ NF Heat Transfer Fluid

Category : Fluid

### Material Notes:

Description: Paratherm NF® heat transfer fluid is highly efficient, thermally stable and cost-effective. It is also non-fouling, low pour and odor free. Completely non-toxic, it is exceptionally safe to use and easy to dispose. Used fluid can be safely combined with spent lubricating oils and recycled locally (EPA, citation 57FR21524). Information provided by Paratherm Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Paratherm-Corporation-Paratherm-NF-Heat-Transfer-Fluid.php](http://www.lookpolymers.com/polymer_Paratherm-Corporation-Paratherm-NF-Heat-Transfer-Fluid.php)

Physical Properties	Metric	English	Comments
Density	0.869 g/cc	0.0314 lb/in <sup>3</sup>	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Solubility	10 ppm	10 ppm	H <sub>2</sub> , by weight, at 760 mm Hg/25°C
Molecular Weight	350 g/mol	350 g/mol	average; ASTM D2502
Vapor Pressure	0.00003447 bar	0.02586 torr	
	@Temperature 93.3 °C	@Temperature 200 °F	
	0.0002068 bar	0.1551 torr	
	@Temperature 149 °C	@Temperature 300 °F	
	0.0101 bar	7.60 torr	
	@Temperature 204 °C	@Temperature 400 °F	
	0.0667 bar	50.0 torr	
	@Temperature 260 °C	@Temperature 500 °F	
	0.325 bar	244 torr	
	@Temperature 316 °C	@Temperature 600 °F	
Surface Tension	29.6 dynes/cm	29.6 dynes/cm	at 760 mm Hg/20°C

Thermal Properties	Metric	English	Comments
Heat of Vaporization	211 J/g	90.7 BTU/lb	calculated
CTE, linear	547 µm/m-°C	304 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Boiling Point	343 °C	649 °F	atmospheric boiling point, 10% fraction; ASTM D1160
Maximum Service Temperature, Air	316 °C	600 °F	optimum use range

Thermal Properties	Metric	English	Comments
	174.0 °C	343.0 °F	max. recommended film temperature
Minimum Service Temperature, Air	48.9 °C	120 °F	optimum use range
Pour Point	-42.8 °C	-45.0 °F	ASTM D97
Flash Point	168 °C	335 °F	pmcc; ASTM D93
	174 °C	345 °F	coc; ASTM D92

Optical Properties	Metric	English	Comments
Refractive Index	1.4768	1.4768	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	DC; ASTM D1169
Dielectric Constant	2.17	2.17	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	3.00 - 4.00 kV/mm	76.2 - 102 kV/in	ASTM D877
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Dissipation Factor	0.00020	0.00020	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Descriptive Properties	Value	Comments
Appearance	transparent, colorless	
Autoignition	690°F	ASTM D2155
	691°F	ASTM E659-78
Feedstock	NF/USP hydrotreated hydrocarbon	
Fire point	386°F	ASTM D92, coc
Odor	none	
Pumpability	-13°F	centrifugal at 2000 centipoise

**Contact Songhan Plastic Technology Co.,Ltd.**

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China