

Paratherm Corporation Paratherm™ OR Heat Transfer Fluid

Category : Fluid

Material Notes:

Description: Paratherm OR® is a sludge-resistant heat transfer fluid that combines substantial oxidation resistance with excellent thermal efficiency, high flash and fire points and extended service life. This zero-pressure fluid provides precise, uniform temperature control to 550°F in closed-loop thermal oil systems where the heat transfer fluid is more than occasionally exposed to air. The crystal-clear OR fluid is comprised of a unique high-stability base plus high-performance oxidation inhibitor/stabilizer. Information provided by Paratherm Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Paratherm-Corporation-Paratherm-OR-Heat-Transfer-Fluid.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.8863 g/cc	0.8863 g/cc	60/60; ASTM D1298
Density	0.866 g/cc @Temperature 23.9 °C	0.0313 lb/in ³ @Temperature 75.0 °F	ASTM D4052
Kinematic Viscosity at 40°C (104°F)	40.12 cSt	40.12 cSt	ASTM D445
Molecular Weight	360 g/mol	360 g/mol	average; ASTM D2502
Vapor Pressure	0.0654 bar @Temperature 260 °C	49.0 torr @Temperature 500 °F	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	216.2 J/g	93.01 BTU/lb	calculated
CTE, linear	720 µm/m-°C @Temperature 20.0 °C	400 µin/in-°F @Temperature 68.0 °F	
Boiling Point	333 °C	631 °F	atmospheric boiling point, 10% fraction; ASTM D1160
Maximum Service Temperature, Air	288 °C	550 °F	optimum use range
	<= 316 °C	<= 600 °F	max. recommended film temperature
Minimum Service Temperature, Air	79.4 °C	175 °F	optimum use range
Pour Point	-37.2 °C	-35.0 °F	ASTM D97
Flash Point	177 °C	350 °F	coc; ASTM D92

Electrical Properties	Metric	English	Comments
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Dielectric Strength Electrical Properties	≥ 3.50 kV/mm Metric	≥ 88.9 kV/in English	disk: ASTM D877 Comments
Dissipation Factor	0.00020 @Frequency 60 Hz	0.00020 @Frequency 60 Hz	ASTM D924

Descriptive Properties	Value	Comments
Appearance	transparent, water-white	
Autoignition	630°F	ASTM E659
Feedstock	hydrotreated natural hydrocarbon	
Fire point	395°F	ASTM D92, coc
Odor	none	
Total Acid Number	0.01	ASTM D664

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