

## ConocoPhillips Hydroclear® Heat Transfer Oil

Category : Fluid , Lubricant

### Material Notes:

Description: Conoco Hydroclear Heat Transfer Oil is a high-quality, thermally stable inhibited oil formulated from premium Conoco hydrocracked base stocks for use in heat-transfer service. Hydroclear Heat Transfer Oil is specially formulated with proprietary additive chemistry and is recommended for use in closed liquid-phase heat-transfer systems equipped with expansion tanks and pressure relief valves where the maximum bulk oil temperature does not exceed 550°F. Hydroclear Heat Transfer Oil is also recommended for use in open heat-transfer systems equipped with cold oilsealed expansion tanks where the maximum bulk oil temperature does not exceed 380°F. Typical applications include direct- and indirect-fired asphalt heaters, building heaters, plastic and wax coating equipment and other hot oil systems. Hydroclear Heat Transfer Oil is not recommended for use in vapor-phase heat-transfer systems. Mixing of Hydroclear Heat Transfer Oil with other nonpetroleum-based products is also not recommended. The use of a positive pressure inert gas, such as nitrogen, is recommended at all times on the expansion tank during operation, and measures should be taken to not allow the hot oil to come in contact with air. Information provided by ConocoPhillips.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ConocoPhillips-Hydroclear-Heat-Transfer-Oil.php](http://www.lookpolymers.com/polymer_ConocoPhillips-Hydroclear-Heat-Transfer-Oil.php)

Physical Properties	Metric	English	Comments
Density	0.854 g/cc	0.0309 lb/in <sup>3</sup>	
Viscosity Measurement	110	110	Viscosity Index
Saybolt Viscosity at 100°F	160 SUS	160 SUS	
Saybolt Viscosity at 210°F	44 SUS	44 SUS	
Kinematic Viscosity at 40°C (104°F)	31 cSt	31 cSt	
Kinematic Viscosity at 100°C (212°F)	5.4 cSt	5.4 cSt	
Vapor Pressure	0.0107 bar @Temperature 260 °C	8.03 torr @Temperature 500 °F	8 mm Hg
ASTM Color	2.0	2.0	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.80 J/g-°C @Temperature -17.8 °C	0.430 BTU/lb-°F @Temperature 0.000 °F	
	2.22 J/g-°C @Temperature 93.3 °C	0.530 BTU/lb-°F @Temperature 200 °F	
	2.59 J/g-°C @Temperature 204 °C	0.620 BTU/lb-°F @Temperature 400 °F	

Thermal Properties	Metric ASTM D 155-07 g-°C	English ASTM D 155-07 TU/lb-°F	Comments
	@Temperature 288 °C	@Temperature 550 °F	
Pour Point	-37.2 °C	-35.0 °F	
Flash Point	218 °C	425 °F	

Descriptive Properties	Value	Comments
Autoignition Temperature	680°F	
Carbon Residue	0.17 wt. %	
Copper Corrosion	1A	
Fire point	480°F	

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