



## Heat Transfer Oil

Conoco Heat Transfer Oil is a high-quality, thermally stable inhibited oil formulated from premium hydrocracked base stocks for use in heat-transfer service.

### **Applications**

Heat Transfer Oil is recommended for use in closed liquid-phase heat-transfer systems equipped with expansion tanks and pressure relief valves where the maximum bulk oil and skim film temperatures do not exceed 600°F. Heat Transfer Oil also is recommended for use in open heat-transfer systems equipped with cold oil-sealed expansion tanks where the maximum bulk oil temperature does not exceed 400°F. Typical applications include direct- and indirect-fired asphalt heaters, building heaters, plastic- and wax-coating equipment and other hot-oil systems.

Heat Transfer Oil is not recommended for use in vapor-phase heat-transfer systems. Mixing of Heat Transfer Oil with other heat transfer fluids is 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.

### **Outstanding Features**

- Long-life oil
- Superior oxidation control and protection against thermal cracking
- Excellent deposit control and resistance to sludging
- High-thermal conductivity
- Excellent low-temperature fluidity
- Low odor
- Noncorrosive to aluminum, steel, copper, brass or bronze

### **Hydrocracked Heat Transfer Oil**

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**Heat Transfer Oil  
Typical Properties**

	<b>ASTM Method</b>	
<b>ISO Grade</b>		<b>32</b>
Gravity, °API	D287	33.8
Specific Gravity @ 60°F (15.5°C)		0.856
Density, lb/gal		7.14
Flash Point (COC), °F (°C)	D92	424 (218)
Fire Point, °F (°C)	D92	475 (246)
Auto-Ignition Temperature,	D2155	
°F		680
°C		360
Pour Point, °F (°C)	D97	-35 (-37)
Viscosity,	D445	
cSt @ 40°C		31
cSt @ 100°C		5.4
SUS @ 100°F		160
SUS @ 210°F		44
Viscosity Index	D2270	109
Carbon Residue (wt %)	D524	0.17
Vapor Pressure @ 500°F (260°C),		
mm Hg, Typ		8.0
Specific Heat (BTU/lb/°F),		
@ 0°F (-18°C)		0.415
@ 200°F (93°C)		0.511
@ 400°F (204°C)		0.607
@ 550°F (288°C)		0.680
ASTM Color	D1500	2.0

Due to continual product research and development, the information contained herein is subject to change without notification.

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