



HEAT TRANSFER FLUIDS

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XCEL THERM[®] 315 – Typical Properties

Economical synthetic oil rated to 550°F (288°C) with very high resistance to oxidation as well as high resistance to sludge and fouling.

Key Operating Temperatures	
Maximum Bulk Fluid Operating Temperature	550°F (288°C)
Maximum Film Temperature	600°F (316°C)
Flash Point (PMCC)(ASTM D93)(minimum)	356°F (180°C)
Flash Point (COC)(ASTM D92)(minimum)	347°F (175°C)
Normal Boiling Point, 10% fraction	667°F (353°C)
Autoignition Temperature (minimum)	649°F (343°C)
Pour Point (maximum)	-60°F (-76°C)
Pumpability at 300 cSt (mm ² /s)	17°F (-8°C)

Physical Properties	
Composition	Radco-engineered alkyl aromatic
Odor	Bland
Appearance	Bright, clear yellow
Kinematic Viscosity at 40°C (104°F)	24 cSt
Kinematic Viscosity at 100°C (212°F)	4.4 cSt
Average Molecular weight	320 g/mol
Moisture Content (maximum)	150 ppm
Density at 25°C (77°F)	7.20 lbs/gal (863 kg/m ³)
Specific Gravity at 25°C/25°C (77°F/77°F)	0.87
Critical Pressure	1.42 MPa (14.0 atm)
Critical Temperature	707°F (375°C)
Critical Volume	0.069 ft ³ /lb (4.3 L/kg)
Coefficient of thermal expansion at 200°C	0.00052/°F (0.00094/°C)

* Data represents typical laboratory samples and are not guaranteed for all samples.

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