



# HEAT TRANSFER FLUIDS

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## XCEL THERM<sup>®</sup> CA

Non-toxic, high purity, premium fluid that features superior economy.

### TYPICAL PROPERTIES

#### Key Operating Temperatures

Maximum Bulk Fluid Operating Temperature	600°F (316°C)
Maximum Film Temperature	650°F (343°C)
Flash Point (PMCC)(ASTM D93)(minimum)	352°F (178°C)
Flash Point (COC)(ASTM D92)(minimum)	380°F (193°C)
Fire Point (COC)(ASTM D92)(minimum)	417°F (214°C)
Pour Point	10°F (-12°C)
Pumpability at 300 cSt (mm <sup>2</sup> /s)	14°F (-10°C)
Normal Boiling Point, 10% fraction	680°F (360°C)

#### Physical Properties

Composition	Radco-engineered hydrogenated white oil
Odor	Faint, oily
Appearance	Water-white, clear liquid
Kinematic Viscosity at 104°F (40°C)	15.5 cSt (mm <sup>2</sup> /s)
Kinematic Viscosity at 212°F (100°C)	2.3 cSt (mm <sup>2</sup> /s)
Average Molecular Weight	350 g/mol
Critical Temperature	1007°F (542°C)
Critical Pressure	220 psia (1.52 MPa)
Critical Density	17.5 lb/ft <sup>3</sup> (280 kg/m)
Moisture Content (maximum)	300 ppm
Density at 77°F (25°C)	7.1 lbs/gal (851 kg/m <sup>3</sup> )
Specific Gravity at 77°F/77°F (25°C/25°C)	0.852
Coefficient of Thermal Expansion at 392°F (200°C)	0.000495/°F (0.000892/°C)
Heat of Vaporization at Maximum Use Temperature	91 BTU/lb (211.7 kJ/kg)
Heat of Combustion	20,000 BTU/lb (46,520 kJ/kg)
Moisture Content (maximum)	300 ppm

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