



HEAT TRANSFER FLUIDS

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XCEL THERM[®] 315

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

TYPICAL PROPERTIES

Key Operating Temperatures		
Maximum Bulk Fluid Operating Temperature	550°F	290°C
Maximum Film Temperature	600°F	315°C
Flash Point (Pensky Martens)(ASTM D93)	338°F	170°C
Flash Point (COC)(ASTM D92)	396°F	202°C
Fire Point (minimum)(ASTM D92)	425°F	218°C
Autoignition Temperature (Minimum)	626°F	330°C
Pumpability, at 2000 mm ² /s (cSt)	-15°F	-25°C
Pumpability, at 300 mm ² /s (cSt)	17°F	-8°C
Initial Boiling Point	664°F	350°C
Physical Properties		
Composition	Alkylated aromatic	
Odor	Faint, characteristic	
Appearance	Clear, bright, yellow liquid	
Kinematic Viscosity, at 104°F/40°C	20 cSt	
Kinematic Viscosity, at 212°F/100°C	3.55 cSt	
Critical Temperature	908.3°F	468.8°C
Critical Pressure	191 psia	
Critical Density	258 kg/m ³	
Moisture Content (maximum)	300 ppm	
Density, at 77°F/25°C	7.25lbs/gal	868 kg/m ³
Specific Gravity @ 77°F/25°C	0.876	
Coefficient of Thermal Expansion	0.000534/°F	0.000961/°C
Heat of Vaporization at Maximum Use Temperature	91.2 BTU/lb	212.2 kJ/kg
Heat of Combustion	20,000 BTU/lb	46,520 kJ/kg
Moisture Content (maximum)	200 ppm	
* Data represents typical laboratory samples and are not guaranteed for all samples		