



## HEAT TRANSFER FLUIDS

700 Kingsland Drive  
 PO Box 1928  
 Batavia, IL 60510  
 USA  
 Phone: (630) 232-7966  
 Fax: (630) 232-7968  
[www.Radcoind.com](http://www.Radcoind.com)

# XCEL THERM<sup>®</sup> DCT

A high performing, low cost hot oil heat transfer fluid formulated for the die casting and injection molding industries. Xceltherm®DCT has excellent heat transfer efficiency and an extended operational life due to its inherent thermal stability. For use up to 600°F (315°C).

<b>Key Temperatures</b>		
Maximum Bulk Fluid Operating Temperature	600°F	316°C
Maximum Film Temperature	650°F	343°C
Flash Point (PMCC) (ASTM D93) (min)	322°F	161°C
Flash Point (COC) (ASTM D92) (min)	350°F	177°C
Fire Point (ASTM D92) (min)	390°F	199°C
Autoignition Temperature (ASTM E659) (min)	705°F	374°C
Pour Point (ASTM 5950) (max)	5°F	-15°C
Pumpability, at 2000 cP	18°F	-8°C
Normal Boiling Point, 10% Fraction	680°F	360°C

<b>Physical Properties</b>		
Appearance	Water-white, clear liquid	
Odor	Faint, oily	
Composition	Radco-engineered white oil	
Moisture Content (max)	100 ppm	
Density, at 77°F/25°C	7.12 lbs/gal	853 kg/m <sup>3</sup>
Specific Gravity, at 68°F /20°C (typical)	0.854	
Kinematic Viscosity, at 104°F/40°C	15.0-18.0 cSt	
Coefficient of Thermal Expansion	0.000495/°F	0.000892°C
Color, Saybolt (ASTM D-156)(min)	30	
Average Molecular Weight	350 g/mol	

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