THERMAL FLUID SOLUTIONS

www.thermalfluidsolutions.com

UK Head Office: 20 Hallsteads, Doveholes, Derbyshire, SK17 8BJ
+44 (0) 1298 815862

US Office: 42 S Bethany Bend Cir, The Woodlands, Texas, TX 77382
+1 346-226-4092

THERMINOL LT HEAT TRANSFER FLUID

Therminol LT is a superior synthetic aromatic heat transfer fluid, specifically chosen for its characteristics of heat transfer properties. Ideal for both the liquid phase and vapor phase, it has excellent heat transfer and fluid properties for low temperature applications.

PERFORMANCE BENEFITS

- Low Viscosity – Low viscosity at exceptionally low temperatures, Therminol LT is excellent for pumping at extreme cooling applications.
- Excellent Low Temperature Performance – Therminol LT has the best low temperature heat transfer coefficient of all coolant fluids. Therminol LT has excellent heat transfer properties to -75°C (-100°F).
- Vapor Phase Operation – Therminol LT can be used in the liquid phase between -75°C (-100°F) and 315°C (600°F). With a boiling point of 181°C (358°F) at ambient pressure, Therminol LT can be used in the vapor phase above 181°C (358°F).

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PRODUCT SPECIFICATION

Appearance	Clear, light yellow liquid
Composition	Alkyl substituted aromatic
Maximum bulk temperature	315°C (600°F)
Maximum film temperature	345°C (650°F)
Normal boiling point	181°C (358°F)
Pumpability, at 300 mm2/s (cSt)	-75°C (-103°F)
Crystallizing point	-75°C (-103°F)
Autoignition temperature (ASTM E-659)	412°C (774°F)
Autoignition temperature (DIN 51794)	429°C (804°F)
Pour point (ISO 3016)	-54°C (-65°F)
Minimum liquid temperatures for fully developed turbulent flow (NRe > 10000)	
10 ft/sec, 1 in tube (3.048 m/s, 2.54 cm tube)	-66°C (-87°F)
20 ft/sec, 1 in tube (6.096 m/s, 2.54 cm tube)	< -73°C (-100°F)
Minimum vapor temperatures for fully developed turbulent flow (NRe > 10000)	
10 ft/sec, 1 in tube (3.048 m/s, 2.54 cm tube)	139°C (283°F)
20 ft/sec, 1 in tube (6.096 m/s, 2.54 cm tube)	116°C (241°F)
Coefficient of thermal expansion at 100°C	0.001080/°C (0.000600/°F)
Heat of vaporization at max. use temperature	223 kJ/kg (95.7 Btu/lb)
Kinematic viscosity at 100°C (ASTM D-445)	0.48 mm2/s (cSt)
Kinematic viscosity at 40°C (ASTM D-445)	0.81 mm2/s (cSt)
Average molecular weight	134
Pseudocritical temperature	377°C (710°F)
Pseudocritical pressure	34.5 bar (500 psia)
Pseudocritical density	298 kg/m3 (2.49 lb/ft3)
Moisture content, maximum (ASTM E-203)	80 ppm
Surface tension in air at 25°C	28.0 dynes/cm
Dielectric constant @ 23°C (ASTM D-924)	2.30