

Technical Data Sheet

Therminol® 75 Heat Transfer Fluid

Applications

- htf - active pharmaceutical ingredients
- Chemicals & petrochemicals
- Distillation
- Lube oil refining
- Oil recycling
- Refining
- Specialty chemicals
- Tall oil

Key Attributes

- Critical System Design
- High Temperature Stability and Performance
- Low Pressure

Product Description

Therminol 75 synthetic heat transfer fluid is a ultra-high temperature liquid phase heat transfer fluid having excellent thermal stability.

Performance Benefits

- **High-Temperature Stability and Performance**—Therminol 75 is an exceptionally stable heat transfer fluid. It delivers a heat transfer coefficient which is equivalent or higher than other natural or synthetic liquids in the same boiling range.
- **Low Pressure**—Therminol 75 is designed for typical liquid-phase heat transfer fluid systems which operate at low pressures.
- **Critical System Design**— Due to the high melting range 40°-70°C (104°-158°F) of Therminol 75, proper system design is important for reliable operation.

For more information, visit www.Therminol.com.

Typical Properties

Property	Test Method	Typical Value, Units
General		
Appearance		Soft solid melting to yellow liquid
Composition		Terphenyl/quaterphenyl
Maximum bulk temperature		385 °C (725 °F)
Maximum film temperature		410 °C (770 °F)
Normal Boiling Point		343 °C (649 °F)
Flash Point		
COC	ASTM D92	185 °C (365 °F)
Autoignition Temperature	ASTM E659	567 °C (1052 °F)
	DIN 51794	538 °C (1000 °F)
Coefficient of thermal expansion		
@ 200°C		0.000803 /°C (0.000446 /°F)
Liquid Density		
@ 80°C	ASTM D 4052	1041 kg/m ³ (8.7 lb/gal)
Acidity	ASTM D 664	<0.2 mg KOH/g
Molecular Weight (Average)		230
Pseudocritical temperature		579 °C (1074 °F)
Pseudocritical pressure		25.3 bar (367 psia)
Pseudocritical density		323 kg/m ³ (20.2 lb/ft ³)

Moisture Content, maximum	ASTM E-203	200 ppm
Dielectric Constant @ 80°C	ASTM D-924	2.32
Slurry point		75-80 °C (165-175 °F)

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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