

Technical Data Sheet

Therminol® 75 Heat Transfer Fluid

Applications

- Chemicals & petrochemicals
- Distillation
- Htf - active pharmaceutical ingredients
- 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.

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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