



THERMINOL
Your Temperature Fluids by Eschschle



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Therminol 66 Heat Transfer Fluid

[Product Bulletin](#)



Product Description

Therminol 66 is the world's most popular high temperature, liquid phase heat transfer fluid. Suitable for operation up to 650°F (345°C), Therminol 66 is pumpable to 27°F (-3°C) and delivers exceptional performance. Consider the following:

0 °C to
345 °C



- **Experience** - Therminol 66 is the most popular high temperature liquid phase heat transfer fluid in the world. No heat transfer fluid material in the world has a higher degree of customer satisfaction than Therminol 66.
- **Proven Fluid** - In a wide variety of applications and thousands of systems around the world, Therminol 66 delivers superior performance. When your heat transfer fluid system is not operating, then your process is not operating either. Do not settle for second best. In critical applications, Therminol 66 is the only choice.
- **True 650°F (345°C) Performance** - Therminol 66 sets the performance standard for high temperature liquid phase fluids. Users can expect many years of reliable, trouble-free operation, even when operating continuously at the recommended maximum temperature of 650°F.
- **Fouling Resistant** - Therminol 66 is specifically engineered to resist solids formation and system fouling. Your system will operate more reliably and you will save money.

Applications

Therminol 66 is used in a wide variety of industries, such as:

- Chemicals
- Plastics

For more information on Therminol 66 systems and applications [e-mail](#) us or contact your [local sales representative](#).

Detailed Properties

[Click here to download the product bulletin](#) containing detailed physical and transport properties for Therminol 66.

Typical Properties

Therminol® 66
Heat Transfer Fluid

Operating Range 0 °C to 345 °C (30 °F to 650 °F)

Appearance	Clear, pale yellow liquid
Composition	Modified terphenyl
Moisture Content, Maximum	150 ppm
Flash Point (ASTM D-92)	184 °C (363 °F)
Fire Point (ASTM D-92)	212 °C (414 °F)
Autoignition Temperature (ASTM E-659)	374 °C (705 °F)
Kinematic Viscosity, at 40 °C	29.6 cSt
Kinematic Viscosity, at 100 °C	3.8 cSt
Density at 25 °C	1005 kg/m ³ (8.39 lb/gal)
Specific Gravity (60 °F/60 °F)	1.012
Coefficient of Thermal Expansion at 200 °C	0.000819/°C (0.000455/°F)
Average Molecular Weight	252
Pour Point	-32 °C (-25 °F)
Pumpability, at 2000 mm ² /s (cSt)	-3 °C (27 °F)
Pumpability, at 300 mm ² /s (cSt)	11 °C (52 °F)
Minimum Temperatures for	
Fully Developed Turbulent Flow (Re = 10000)	
10 ft/sec, 1-in tube	72 °C (162 °F)
20 ft/sec, 1-in tube	53 °C (128 °F)
Transition Region Flow (Re = 2000)	
10 ft/sec, 1-in tube	35 °C (96 °F)
20 ft/sec, 1-in tube	26 °C (78 °F)
Boiling Range, 10%	348 °C (658 °F)
Boiling Range, 90%	392 °C (738 °F)
Normal Boiling Point	359 °C (678 °F)
Heat of Vaporization at Maximum Use Temp 345°C	272 kJ/kg (117 Btu/lb)
Optimum Use Range	0-345 °C (30-650 °F)
Maximum Film Temperature	375 °C (705 °F)
Pseudocritical Temperature	569 °C (1056 °F)
Pseudocritical Pressure	24.3 bar (353 psia)
Pseudocritical Density	317 kg/m ³ (19.8 lb/ft ³)

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Application

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