



**THERMAL  
FLUID  
SOLUTIONS**

[www.thermalfluidsolutions.com](http://www.thermalfluidsolutions.com)

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PRODUCT  
INFORMATION

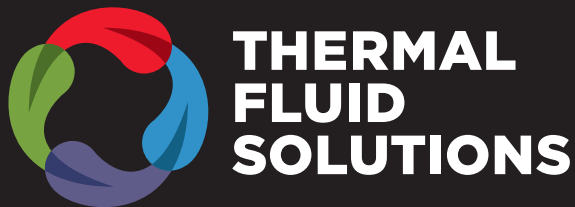
# THERMINOL 62 HEAT TRANSFER FLUID

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**Therminol 62 is a synthetic heat transfer fluid; specially chosen due to its custom contoured chemistry for high-performance, low pressure and exceptional thermal stability. Specifically designed to increase operation reliability and reduce running costs.**

## PERFORMANCE BENEFITS

- **True 325°C (620°F) Performance** – Users can expect many years of reliable, trouble-free operation, even when operating continuously at the recommended maximum temperature.
- **Low Pressure** – Therminol 62 is designed for typical liquid phase heat transfer fluid systems which operate at low pressures.
- **Fouling Resistant** – Therminol 62 is specifically engineered to resist solids formation and system fouling. Your system will operate more reliably and you will save money.



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## PRODUCT SPECIFICATION

Appearance	Water-white liquid
Composition	Isopropyl biphenyl mixture
Maximum bulk temperature	325°C (620°F)
Maximum film temperature	355°C (670°F)
Normal boiling point	333°C (631°F)
Pumpability, at 300 mm <sup>2</sup> /s (cSt)	-11°C (12°F)
Pumpability, at 2000 mm <sup>2</sup> /s (cSt)	-23°C (-9°F)
Flash point, COC (ASTM D-92)	171°C (340°F)
Flash point, PMCC (ASTM D-93)	160°C (320°F)
Autoignition temperature (ASTM E-659)	407°C (765°F)
Autoignition temperature (DIN 51794)	433°C (813°F)
Pour point (ISO 3016)	-42°C (-44°F)
<b>Minimum liquid temperatures for fully developed turbulent flow (<math>N_{re} &gt; 10000</math>)</b>	
10 ft/sec, 1 in tube (3.048 m/s, 2.54 cm tube)	50°C (122°F)
20 ft/sec, 1 in tube (6.096 m/s, 2.54 cm tube)	31°C (88°F)
<b>Minimum vapor temperatures for fully developed turbulent flow (<math>N_{re} &gt; 2000</math>)</b>	
10 ft/sec, 1 in tube (3.048 m/s, 2.54 cm tube)	11°C (52°F)
20 ft/sec, 1 in tube (6.096 m/s, 2.54 cm tube)	4°C (39°F)
Coefficient of thermal expansion at 100°C	0.001000/°C (0.000556/°F)
Heat of vaporization at max. use temperature	263.9 kJ/kg (113.6 Btu/lb)
Kinematic viscosity at 100°C (ASTM D-445)	2.52 mm <sup>2</sup> /s (cSt)
Kinematic viscosity at 40°C (ASTM D-445)	10.7 mm <sup>2</sup> /s (cSt)
Liquid density at 25°C (ASTM D-4052)	951.1 kg/m <sup>3</sup> (7.94 lb/gal)
Total acidity (ASTM D-664)	<0.2 mg KOH/g
Average molecular weight	252
Pseudocritical temperature	487.0°C (908°F)
Pseudocritical pressure	15.0 bar (217.5 psia)
Pseudocritical density	269.4 kg/m <sup>3</sup> (16.82 lb/ft <sup>3</sup> )
Copper corrosion (ASTM D-130)	<< 1a
Moisture content, maximum (ASTM E-203)	200 ppm
Dielectric constant @ 23°C (ASTM D-924)	2.53
Chlorine content, ppm (DIN 51577)	<10 ppm

Email the **TFS Team**, [office@thermalfluidsolutions.com](mailto:office@thermalfluidsolutions.com)  
or visit [www.thermalfluidsolutions.com](http://www.thermalfluidsolutions.com)