



**THERMAL
FLUID
SOLUTIONS**

20 Hallsteads, Doveholes, Derbyshire, SK17 8BJ. UK
+ 44 (0) 1298 815862 (UK) + 1 864-516-7506 (USA)

www.thermalfluidsolutions.com

PRODUCT
INFORMATION

THERMINOL 62 HEAT TRANSFER FLUID

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.

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 ² /s (cSt)	-11°C (12°F)
Pumpability, at 2000 mm ² /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)
Minimum liquid temperatures for fully developed turbulent flow ($N_{re} > 10000$)	
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)
Minimum vapor temperatures for fully developed turbulent flow ($N_{re} > 2000$)	
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 ² /s (cSt)
Kinematic viscosity at 40°C (ASTM D-445)	10.7 mm ² /s (cSt)
Liquid density at 25°C (ASTM D-4052)	951.1 kg/m ³ (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 ³ (16.82 lb/ft ³)
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

Contact the **TFS Team** today on **+44 (0)1298 815862**
or visit www.thermalfluidsolutions.com