

SYNTHETIC HT FLUID



HEAT TRANSFER



TOTAL

Synthetic Heat Transfer Fluid.

APPLICATIONS

Premium heat transfer systems for severe applications.

- **SYNTHETIC HT FLUID** is a highly efficient, thermally stable, synthetic fluid designed specifically for use in very hot heat transfer applications. It contains potent additives of low volatility to inhibit oxidation and thermal degradation. It is formulated to minimize deposits and reduce sludge while maximizing fluid life. Its low vapor pressure reduces the risk of pump cavitation, decreases odors, and reduces fire hazards which lead to safer operations. It is designed to operate above its flash point when air is excluded.
- **SYNTHETIC HT FLUID** is designed for applications in industrial plants where heating oil is used in the production of steam or hot water; manufacturing processes (paper, cement, timber, etc.); heat treatment devices (autoclaves, reaction vessels, furnaces, dies, dryers, injection molding, etc.). May be used up to 650°F under inert gas. It is recommended in applications where the heat transfer fluid continually operates at high temperature.

SPECIFICATIONS

- ISO 6743/12 Category L QD
- DIN 51502 Class L

ADVANTAGES

Long fluid life and high operating reliability.

- Excellent thermal stability and oxidative stability--reduces fouling.
- High thermal conductivity.
- Very high temperature applications.

TYPICAL CHARACTERISTICS	METHODS	SYNTHETIC HT FLUID
Viscosity @ 40°C, cSt	ASTM D 445	34.2
Viscosity @ 400°F(205°C), cSt	ASTM D 445	1.77
Viscosity Index	ASTM D 2272	162
Density @ 60°F	ASTM D 1298	0.856
Density @ 400°F (calc)	ASTM D 1298	0.733
Auto Ignition Point, °F(°C)		690(366)
Flash Point, COC, °F(°C)	ASTM D 92	442(228)
Pour Point, °F(°C)	ASTM D 97	-1(-18)
Thermal Conductivity, 400°F,BTU/hr-sq ft-°F		0.077(0.134)
Max. Bulk Temp. Limit, °F(°C)--no air		600(316)
Max. Skin Temp. Limit, °F(°C)--no air		650(343)
Vapor Pressure, 400°F, psia (kPa)		0.07(0.48)
Boiling Range, 10%, °F(°C)	ASTM D 86	644(340)
Boiling Range, 90%, °F(°C)	ASTM D 86	734(390)

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This lubricant must be applied as recommended and used for the application for which it was designed. TOTAL Specialties USA, Inc. will have no responsibility for any injury to persons or property resulting from misuse or misapplication of the lubricant. A safety data sheet conforming to the OSHA Hazard Communication Standard 29 CFR Section 1910.1200 can be downloaded at www.totalspecialties.com. Copyright 2016 All rights reserved.