



SYNTHETIC HT FLUID

(Ultra High Temperature Heat Transfer Fluid)

SYNTHETIC HT FLUID is high performance crystal clear heat transfer fluid. It is designed for applications in industrial applications where a high level of thermal efficiency and a long service life are required.

SYNTHETIC HT FLUID is a full synthetic which is rated for applications up to 650 degrees F (or 343 C). It contains potent additives of low volatility to inhibit oxidation and thermal degradation. It is formulated to minimize deposits and reduce sludge while maximizing oil 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.

It is non-toxic and non-hazardous and does not require any special health or safety warnings or disposal procedures.

BENEFITS:

- FULL SYNTHETIC
- EXCELLENT SERVICE LIFE
- RESISTS OXIDATION AND SLUDGE OR VARNISH FORMATION
- REDUCES FOULING
- LOW VOLATILITY
- HIGH THERMAL CONDUCTIVITY

APPLICATIONS:

SYNTHETIC HT FLUID is recommended for use up to 650 F. It is recommended in applications where the heat transfer fluid continually operates at high temperature.



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TYPICAL CHARACTERISTICS

Product Code	NA
Appearance of liquid	Colorless, clear
Viscosity, cSt @ 40 °C	34.2
@ 100 °C	6.8
Viscosity, cSt at 400 °F (205 °C)	1.77
at 500 °F (260 °C)	1.17
Viscosity Index	162
Auto-Ignition Point °F	690 (366)
Pour Point (ASTM D-97) °F (°C)	-1 (-18)
Flash Point (ASTM D-92) °F (°C)	442 (228)
Vapor Pressure, psia @ 100 °F (kPa)	0.00 (0.00)
psia @ 400 °F (kPa)	0.07 (0.48)
psia @ 550 °F (kPa)	0.72 (5.0)
psia @ 600 °F (kPa)	1.64 (11.3)
Molecular weight,	390
Carbon residue, mass%	0.007
Density @ 60 °F	0.856
100 °F	0.840
400 °F	0.733
500 °F	0.690
600 °F	0.655
Thermal Conductivity, BTU/hr-Ft ² -°F; (W/m-K)	
@ 100 °F	0.083 (0.143)
@ 400 °F	0.077 (0.134)
@ 600 °F	0.074 (0.127)
Minimum temperature for fully developed turbulent flow (10 ft/sec, 1-inch tube)	200 F*
Boiling range, 10% °F (°C)	644 (340)
Boiling range, 90% °F (°C)	734 (390)
Maximum Use Temperature °F (°C)	650 (343)

Values are for comparison purposes only.

* Estimated value