

## THERM HF

**Therm HF** is Heat Transfer Oil formulated from premium quality, chemically stable, high VI (Group III) hydro treated base stocks. It has high performance and intended for use in oil-sealed, closed, open & indirect heat transfer and cooling systems. It has good heat transfer efficiency with better resistant to thermal cracking and chemical oxidation. It has high specific heat and thermal conductivity at operating temperatures and will consequently provide more rapid heating & greater system flexibility. Its viscosities are such that it can be pumped readily at both start-up and an elevated operating temperature. Flash Point is stable and does not decrease significantly during service due to their thermal resistance properties.

### BENEFITS

- Provides significant resistance to thermal cracking and chemical decomposition ensuring no sludge formation & coke deposits, resulting in minimum interference with heat transfer ability. This minimizes equipment down time.
- Capable of an extremely long service life without deposit formation or viscosity increase, as it has extreme less acidity compare to conventional mineral based heat transfer oil.
- Provides good low temperature fluidity which helps and easy starting of cold system.
- High heat transfer rates with improved operating efficiency thus translate a lower operating cost.
- Protection against corrosion.

### APPLICATIONS

- Therm HF heat transfer oil can be used in open & closed system in line with Bulk oil temperature ranges as given in Table.
- Therm HF heat transfer oil should not be mixed with other oils, as it may weaken the thermal resistance and oxidation stability, which may cause a change in other properties, and effect the Oil's useful life.

### PRODUCT CHARACTERISTICS

PROPERTIES	UNITS	VALUE				TEST METHOD
<b>SAE GRADE</b>	-	<b>22</b>	<b>32</b>	<b>46</b>	<b>68</b>	-
Specific Gravity @ 15 °C	-	0.8175	0.851	0.854	0.856	ASTM D-4052
Viscosity @ 40 °C	mm <sup>2</sup> /s	19.62	32.1	46.0	67.5	ASTM D-445
Viscosity @ 100 °C	mm <sup>2</sup> /s	4.247	5.7	7.41	9.4	ASTM D-445
Viscosity Index	-	123	120	126	117	ASTM D-2270
Flash Point, COC	°C	220	230	236	242	ASTM D-92
Pour Point	°C	-24	-15	-12	-9	ASTM D-97
Neutralization No.	mg KOH/g	<0.01	<0.01	<0.01	<0.01	ASTM D-2896
Color	-	<0.5	<0.5	<0.5	<0.5	ASTM D-1500
Bulk Oil Temperature	-					-
Open System	°C	-21 to 190	-15 to 200	-12 to 210	-9 to 220	-
Open System	°C	-21 to 295	-15 to 325	-12 to 330	-9 to 340	-
<b>Product Code</b>	-	<b>447042</b>	<b>440042</b>	<b>596042</b>	<b>523042</b>	-

