**Signal Therm HTF Oils**

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| Product Application: |

Signal Therm HTF Oils are extended life, high detergent products intended for use in closed indirect heating installations. They are recommended for use in cold-oil sealed, indirect heating and cooling systems in all kinds of industrial processes.

Signal Therm HTF Oils are formulated from severely hydro-treated base stocks that are exceptionally resistant to thermal and oxidative break down. They are very thermally stable and are capable of extended service life without deposit formation or viscosity increase.

Signal Therm HTF Oils have good heat transfer efficiency, and their viscosities are such that they can be pumped readily at both start-up and operating temperatures. They demonstrate specific heat and thermal conductive that provide more rapid heat dissipation. The flash points of these oils will not decrease significantly in service because of their resistance to thermal cracking at the operating temperatures for which they are recommended.

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| Package Size: |

Drums, Pails

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| Features and Advantages: |

High resistance to thermal cracking and decomposition

Outstanding thermal properties

Easy starting of cold systems

High heat transfer rates and improved operating efficiency and lower operating costs

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| Typical Characteristics:  |

Signal Therm HTF Series 05 100 200 300 400

Viscosity, ASTM D 445

cSt @ 40°C 5.0 21.5 42.6 61.0 113

cSt @ 100°C 1.5 4.3 6.4 8.2 12.3

Pour Point, °C, ASTM D 97 -9 -15 -12 -7 -6

Flash Point, °C, ASTM D 92 135 216 220 260 270

Specific Gravity @ 15° kg/l, ASTM D 4052 .854 .858 .861 .865 .875

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