TECHNICAL DATA SHEET

SYNTH HTF-24 (Semi-Synthetic Heat Transfer Fluid) Thermic Oil

DESCRIPTION

SYHTH HTF-24 is a semi-synthetic superior quality heat transfer fluid is designed high boiling point for use in non-pressurized/low pressure, indirect heating systems. It delivers efficient, dependable, uniform process heat with no need for high pressures. SYHTH HTF-24 formulated from selected synthetic & mineral base oil stocks and additive system, that delivers outstanding performance and thermal stability with low vapour pressure, high thermal conductivity, oxidation stability and also provide reliable and consistent heat transfer performance over long period of service life. fluid offers excellent heat transfer properties over extended periods operating at continuously high operating temperatures. This oil has a relatively high flash point, low vapour pressure and low volatility. It is compatible with most of the mineral oils normally used in heat transfer systems.

OPERATING TEMERATURE: SYHTH HTF-24: operating temperature up to 355°C

PERFORMANCE & BENEFITS:

- **Excellent Oxidation Resistance: Outstanding resistance to sludge and deposit formation even when the oil undergoes repeated heating and cooling cycles. Dual-stage-antioxidant system keeps heat exchanger surface clean. Longer operating life and lower operating cost.**
- **Excellent Thermal Stability: Provides resistance to break down and deposit formation inside the piping for optimum life and performance.**
- **Low Viscosity: Low viscosity assures excellent fluidity and heat transfer over a wide temperature range.**
- **Low Volatility and Low Vapour Pressure: Low volatility coupled with low vapour pressure and high flash point indicates low evaporative loss. Reduces top up quantity. Low vapour pressure resists cracking and minimizes the formation of volatile decomposition products.**
- **Excellent Thermal Conductivity: High heat transfer coefficient ensures rapid heating. Potential for saving of fuel consumption.**
- **Consistent Performance: Offers extended oil life, good pump circulation and efficient fluid heating. Enhances life of rotary seal and pump.**
- **Non-Corrosive and Non-Toxic: No corrosion of the piping and other system elements. Provides safe working environment to the operators.**

APPLICATIONS

- **SYHTH HTF-24 is recommended for heat transfer systems for industrial applications like non-pressurized, indirectly heated, closed loop, liquid phase, chemical plants, process heating, food, feed, drink plants, textile plants, pharmaceuticals & processing industries heat transfer systems extended maximum use operating at bulk fluid temperatures up to 355°C. It is also suitable for applications where repeated heating and cooling cycles are involved.**
- **SYHTH HTF-24 can be used in continuous heat transfer system with the following temperature limit for indirect heating in a closed system with forced circulation.**

PROPERTIES OF SYNTH HTF-24

Characteristics	Specifications
Appearance	Clear & Bright
Colour	Light Yellow
Base Oil Type & Composition	Synthetic hydrocarbon mixture (Synthetic Oil & Mineral Oil)
Density, g/cc @15°C	0.862
Copper Corrosion, 100°C, 3 hrs	1a
Flash Point, COC,°C	235°C
Pour Point, COC,°C	-26°C
Fire Point, COC,°C	268°C
Kinematic Viscosity @40°C, cSt	29.0
Kinematic Viscosity @100°C, cSt	4.9
Viscosity Index	90
Maximum Film Temperature	374°C
Minimum Start-up Temp (300 cSt)	11°C
Bulk temperature max	355 °C
Initial Boiling Point, °C	>370°C
Final Boiling Point, °C	420°C
Auto Ignition Point	366°C
Neutralization Value, mg KOH/ g	<0.1
Co-efficient of Thermal Expansion, per °C	0.000798
Thermal Conductivity @29.5OC, Cal/cm. S °C	0.000322
Minimal Operating Range	0°C to 355°C
Neutralization Value	<0.04

Storage & Handling:

The product should be stored inside. Keep it properly sealed to avoid contamination. Avoid freezing. Shelf life is 5 yrs. under protected storage conditions.

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