

KYNOS HITHERM LT

Heat Transfer Fluids

KYNOS LUBRICATION PRIVATE LIMITED

☎ +91 8141800752 🌐 www.kynosoils.com✉ info@kynosoils.com / sales@kynosoils.com

KYNOS HITHERM LT: Heat Transfer Fluid based on Paraffinic Base Stock.

HITHERM LT is designed for efficient thermal conductivity and stability at high temperatures. Derived from refined paraffinic oils, this fluid offers excellent thermal and oxidation stability, making it suitable for continuous heat transfer in industrial applications such as chemical processing, oil refining, and manufacturing systems.

It maintains a consistent viscosity over a wide temperature range, ensuring efficient circulation and reducing energy loss. Additionally, its excellent thermal and oxidation stability provides long service life and clean heat exchanger systems.

Applications

- It is recommended for use in heat transfer systems where fuel oil, gas or electricity is used to heat a fluid transferring heat to the point of application. In closed systems, HITHERM LT has an optimum maximum use temperature of 250 °C.
- Ensures efficient heat transfer in plastic moulding, extrusion processes, and other industrial machinery.
- Used in large-scale heating and cooling systems for temperature regulation in plastic & machinery Industries.

Benefits

- Excellent thermal efficiency and stability.
- Long Oil Life.
- Excellent rust and corrosion protection.
- Ease of pumping and circulation.
- Minimized sludge and deposits.

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Typical Performance Data

Properties	Test Method	HITHERM LT
Density @ 20 °C, g/ml	ASTM D-1298	0.87
Density @ 100 °C, g/ml	ASTM D-1298	0.810
Viscosity @ 40 °C, mm ² /s	ASTM D-445	10
Viscosity @ 100 °C, mm ² /s	ASTM D-445	2.5
Viscosity @ 180 °C, mm ² /s	ASTM D-445	1.64
Flash Point, °C Minimum	ASTM D-92	150
Pour Point, °C Max	ASTM D-97	- 48
Conradson value, %	ASTM D-189	0.02
Thermal conductivity @ 40 °C, W/m.K	ASTM D-2717	0.13
Thermal conductivity @ 100 °C, W/m.K	ASTM D-2717	0.13
Specific heat @ 20 °C, Kcal/kg °C	ASTM D-240	0.45
Thermal expansion coeff. per °C	ASTM E-228	0.00073

*All performance data on this Technical Data Sheet are indicative only and may vary during production.