

# KYNOS HITHERM FG

## Heat Transfer Fluids

KYNOS LUBRICATION PRIVATE LIMITED

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### KYNOS HITHERM FG: Premium Food Grade Heat Transfer Fluid.

HITHERM FG is made with food grade synergistic blends of severely hydro treated and hydro cracked hydrocarbon base fluids. It is formulated to be very thermally and oxidative stable and is further enhanced with proprietary additives that greatly extends the life time over normal and other synthetic food grade heat transfer fluids. It provides exceptional performance in a number of food related Heat Transfer applications.

It is non-toxic and non-hazardous; it meets US FDA 21 CFR 178.3570 lubricants for incidental food contact and is NSF HT-1 approved. It is compatible with mineral and PAO oils.

### Applications

HITHERM FG is used as a Heat Transfer medium in numerous food related applications, designed for systems operating at a maximum temperature of 305 °C. The maximum film temperature is 325 °C.

- Suitable for pasteurizers, sterilizers, and other heating systems in beverage production Industries.
- Ideal for heating and cooling systems in facilities producing medicines and health products Industries.
- Utilized in baking and candy-making equipment in industries to maintain consistent and safe heating.

### Benefits

- Excellent thermal & oxidation stability which contributes to long life at very high temperatures.
- Very low volatility and vapour pressures
- High heating capacity and thermal conductivity
- Very good deposit control to help keep system clean
- Low viscosity at operating temperatures for improved pumping efficiency
- Excellent demulsibility and cold flow properties for smoother startups.

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### Performance Level

- US FDA 21 CFR 178.3570
- DIN 51522 NSF H1
- IS 14756 FSSAI Compliance

### Typical Performance Data

Properties	Test Method	HTF 32
ISO Viscosity Grade	ASTM D-2422	32
Density @ 20 °C, g/ml	ASTM D-1298	0.84
Viscosity @ 40 °C, mm <sup>2</sup> /s	ASTM D-445	40
Carbon Residue, %	ASTM D-524	0.05
Flash Point, °C Minimum	ASTM D-92	240
Pour Point, °C Max	ASTM D-97	-10
Thermal Conductivity @ 40 °C, (W/ m.K)	ASTM D-5930	0.132
Thermal Conductivity @ 200 °C, (W/ m.K)	ASTM D-789	0.120
Coefficient of Thermal Expansion, per °C	ASTM D-2326	0.0008

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

All Ingredients are FDA listed ingredients under 21 CFR 178.3570 and complies the requirement of NSF H1 and meet the USFDA 1998 H1 Guidelines.

These products do not contain genetically modified ingredients, and nut oil or derivatives. The product is non-hazardous.