PARATHERM PRODUCT OVERVIEW

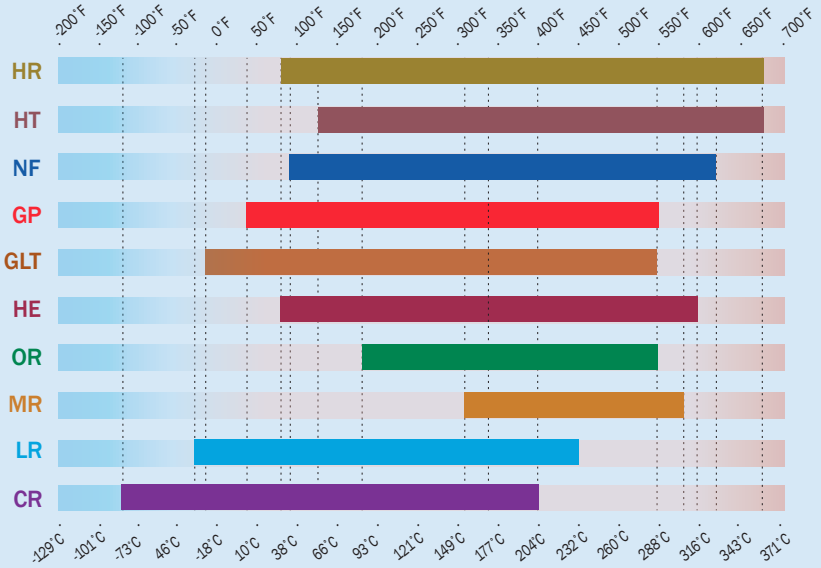
Paratherm™
HEAT TRANSFER FLUIDS

a Lubrizol brand

PARATHERM HEAT TRANSFER FLUIDS

For Non-Pressurized Closed-Loop Systems

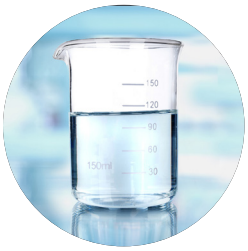
Non-aqueous specialty liquid phase heat transfer fluids used in industrial processing applications from -127ºF (-88ºC) to 650ºF (343ºC), including mineral oils, synthetic and organic-based formulas. Synthetic organic-based fluids will reach the highest temperature ranges on the thermometric chart to the right, without boiling or reaching the vapor phase. Extreme low-temperature products will remain liquid at the (left) end of the scale.



PARATHERM™ HR HEAT TRANSFER FLUID

Synthetic Aromatic I High Thermal Stability

11°F to 675°F / -12°C to 357°C



OVERVIEW

Paratherm™ HR heat transfer fluid is an alkylated-aromatic based heat transfer fluid formulated for closed-loop liquid-phase heating.

FEATURES

- High temperature stability
- Inherently resists fouling of heat-exchange surfaces
- Film temperature to 700°F
- Low volatility

APPLICATIONS

- Gas Processing
- Chemical Processing
- Plastic Processing
- Waste Oil Recovery
- Biodiesel Production
- Biomass

PARATHERM™ HT HEAT TRANSFER FLUID

Hydrogenated Terphenyl I High Thermal Stability

52°F to 675°F / 11°C to 357°C

OVERVIEW

Paratherm™ HT Heat Transfer Fluid is a partially hydrogenated terphenyl-based product designed for closed-loop liquid phase heating; Chemically equivalent and compatible with Therminol® 66.

FEATURES

- Decades of proven performance in high temperature systems
- Excellent thermal stability
- Film temperature to 700°F
- High boiling point

APPLICATIONS

- Gas Processing
- Chemical Processing
- Plastic Processing
- Waste Oil Recovery
- Biodiesel Production
- Biomass

PARATHERM™ NF HEAT TRANSFER FLUID

Ultra-Pure I Food Grade I Non-Fouling

24°F to 630°F / -5°C to 332°C

OVERVIEW

Paratherm™ NF is a carefully engineered ultra-pure mineral oil with high naphthenic content. It is the preferred choice for food processing facilities.

FEATURES

- Exceptional thermal stability
- High film temperature
- Odor free
- Non-fouling
- Low maintenance
- Food grade (NSF)

APPLICATIONS

- Food Processing
- Oil & Gas
- Electric Heating
- Wood Processing
- Plastics Manufacturing
- Chemical Processing

PARATHERM™ GP™ HEAT TRANSFER FLUID

Thermal Stability I Extended Service

20°F to 630°F / -7°C to 332°C

OVERVIEW

Paratherm™ GP is a premium heat transfer fluid carefully engineered to outperform standard mineral oils. It's designed for extended trouble-free service in closed-loop liquid-phase systems to 600°F.

FEATURES

- Exceptional thermal stability vs. standard mineral oils
- Inherently resists fouling of heat-exchange surfaces
- Film temperature to 650°F
- Low volatility

APPLICATIONS

- Gas Processing
- Chemical Processing

PARATHERM™ GLT HEAT TRANSFER FLUID

Low Temperature Start-up I Thermally Stable

12°F to 550°F / -11°C to 288°C

OVERVIEW

Paratherm™ GLT heat transfer fluid is an alkylated aromatic based heat transfer fluid formulated for closed-loop liquid-phase heating systems to 550°F; Chemically equivalent and compatible with Therminol® 55.

FEATURES

- Low temperature start-up vs. mineral oils
- Good thermal stability
- Broad compatibility with synthetic aromatics
- High boiling point

APPLICATIONS

- Gas Processing
- Chemical Processing
- Plastic Processing
- Liquid Terminal Tank Heating
- Asphalt Plants

PARATHERM™ HE HEAT TRANSFER FLUID

Economical Continuous Service I Food Grade

37°F to 600°F / 3°C to 316°C

OVERVIEW

Paratherm™ HE is an economical, highly-refined, mineral-oil based heat transfer fluid formulated for service in closed-loop heat transfer systems to 600°F.

FEATURES

- Continuous service to 600°F
- User friendly, easy disposal
- High flash/fire/boiling point
- Food grade

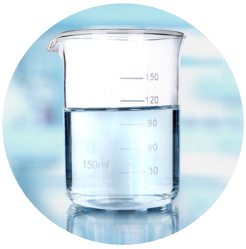
APPLICATIONS

- Municipal Sludge Dryers
- Plastics Manufacturing
- Industrial Laundry Facilities
- Wood Processing
- Asphalt Plants/terminals
- Chemical Processing

PARATHERM™ OR HEAT TRANSFER FLUID

Sludge Resistant I Non-Fouling

40°F to 500°F / 4°C to 260°C



OVERVIEW

Paratherm™ OR sludge-resistant heat transfer fluid has substantial oxidation resistance and extended service life.

FEATURES

- Formulated to resist oxidation and sludge formation
- Uniform, efficient heat transfer
- User friendly, easy disposal

APPLICATIONS

- Die Casting
- Plastics, Injection Molding and Profile Extrusion
- Easy-In Quick Connects
- Cabinet & Circulation Style Heaters

PARATHERM™ MR HEAT TRANSFER FLUID

Single Fluid Heating & Cooling I Food Grade

-37°F to 580°F / -38°C to 304°C

OVERVIEW

Paratherm™ MR is a mid-range heat transfer fluid rated for service from -37°F to 550°F. Excellent thermal stability and low viscosity allow for a wide operating range, ideal for multi-zone heating and cooling applications.

FEATURES

- Wide operating range
- Film temperature to 600°F
- Food grade formulation
- Low vapor pressure

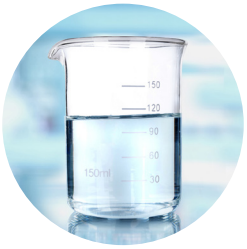
APPLICATIONS

- Laminating Lines
- Chemical Processing
- Batch Reactors
- Pharmaceutical Manufacturing
- Gas to Liquid

PARATHERM™ LR HEAT TRANSFER FLUID

Low Temperature | Single Fluid Heating & Cooling | Food Grade

-112°F to 450°F / -80°C to 232°C



OVERVIEW

Paratherm™ LR heat transfer fluid is an aliphatic-hydrocarbon based heat transfer fluid designed for use in closed-loop, liquid phase heating and cooling systems. It is NSF registered HT1 for incidental food contact.

FEATURES

- Wide operating range
- Food grade formulation
- Replaces silicones and/or glycols in circulation systems
- Ideal as a non-reactive heating media

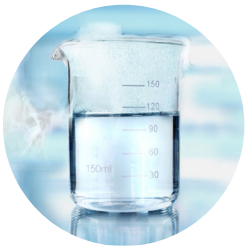
APPLICATIONS

- Specialty Chemical Batch Heating & Cooling
- Pharmaceutical Manufacturing
- Moisture Sensitive Heating/Cooling Processes
- Food Processing

PARATHERM™ CR HEAT TRANSFER FLUID

Extreme Low Temperature Fluid

-170°F to 400°F / -112°C to 204°C



OVERVIEW

Paratherm™ CR heat transfer fluid is a unique blend of synthetic components formulated to provide excellent cooling performance in closed-loop heat-transfer systems.

FEATURES

- Wide operating range
- Improved efficiency vs. low temperature silicones
- Replaces silicones and/or glycols in circulation systems
- Ideal as a non-reactive heating media

APPLICATIONS

- Fine and Specialty Chemical Processing
- Pharmaceutical Manufacturing
- Environmental Test Chambers
- Aerospace

PARATHERM™ AC SYSTEM CLEANER

Compatible with aromatic heat transfer fluids

On-the-fly cleaning to 550°F / 288°C

OVERVIEW

Paratherm™ AC cleaner is specifically formulated to dissolve and suspend sludge deposits that can reduce flow—and thus heat transfer — in larger continuously-operated systems. The no-flush formula means the system can be cleaned during normal system operation and recharged with no flushing required.

FEATURES

- No flush formula cleans during normal system operation
- Restores system performance
- Compatible with aromatic thermal fluids

APPLICATIONS

- Suitable for Nearly Any Application

PARATHERM™ LC SYSTEM CLEANER

Compatible with mineral-oil heat transfer fluids

On-the-fly cleaning to 550°F / 288°C

OVERVIEW

Paratherm™ LC cleaner is specifically formulated to dissolve and suspend sludge deposits that can reduce flow — and thus heat transfer — in larger continuously-operated systems. The no-flush formula means the system can be cleaned during normal system operation and recharged with no flushing required.

FEATURES

- No flush formula cleans during normal system operation
- Restores system performance
- Compatible with all mineral-oil thermal fluids

APPLICATIONS

- Suitable for Nearly Any Application

PARATHERM™ SC SYSTEM CLEANER

Cleans hot oil temperature control units

Suitable to 150°F / 66°C

OVERVIEW

Paratherm™ SC system cleaner is expressly formulated to dissolve and suspend sludge and carbon lumps frequently produced in hot oil temperature control units where petroleum or glycol-based heat transfer fluid have been used.

FEATURES

- Concentrated formula restores system performance
- Compatible with glycol or petroleum-based fluid residues
- Can be re-used after filtration

APPLICATIONS

- Suitable for Nearly Any Application

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www.paratherm.com

PREMIER HEAT TRANSFER
Fluid Technology.

INDUSTRY LEADING
Solid Service.