



marine products

# Texatherm® 32 & 46



## Description

Texatherm® is a heat transfer fluid formulated to meet the requirements of hot circulating systems operating at temperatures of up to 320°C. Based on highly refined paraffinic base oils with inherently good thermal stability, Texatherm contains selected additives which help to enhance oxidation stability, protect against rusting or corrosion of steel and copper, and prevent air entrainment and foaming.

## Typical Characteristics

ISO Viscosity Grade	32	46
<b>MPID</b>		
Density at 15°C, kg/l	0.86	0.86
Density at 100°C, kg/l	0.80	0.80
Density at 200°C, kg/l	0.73	0.73
Density at 300°C, kg/l	0.67	0.67
Pour point, °C	-15	-15
Flash point COC, °C	220	235
Oxidation (ASTM D943), hrs to TAN = 2.0 mg KOH/g	3500	3500
Rust test, synthetic seawater	PASS	PASS
Kinematic viscosity at 0°C, mm²/s	313.0	545.0
Kinematic viscosity at 40°C, mm²/s	32.0	46.0
Kinematic viscosity at 100°C, mm²/s	5.5	6.9
Viscosity Index	106	105
Copper corrosion, 3h at 100°C	1a	1a
Water by Karl Fischer, mg/kg	<50	<50
TAN, mg/KOH/g	0.08	0.1
Air release at 50°C, min.	2.3	2.3
Foam Seq II, after blowing, ml	0	0
Foam Seq II, after 10 minutes, ml	0	0

## Recommended Applications

Texatherm is recommended for use as a heat transfer fluid in temperatures ranging from -15°C to a maximum bulk temperature of 288°C. The maximum recommended film temperature is 316°C (the film or skin temperature is the temperature of the oilfilm that it is in direct contact with the internal wall of the heat exchangers tubes in the heater).

## Suitable For Open Or Closed Heat Transfer Systems With Forced Circulation Operating Under The Following Conditions:

- ✓ **Maximum bulk oil temperature** 288°C
- ✓ **Maximum film temperature on heater surfaces** 316°C
- ✓ **Maximum temperature of oil surface in contact with air in open system** 107°C



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## Texatherm 32 Is Approved For:



## Performance Benefits

**1. Thermal and Oxidation Stability**

Exhibits good thermal and oxidation stability, allowing operation at high temperatures for extended periods.

**2. Heat Transmission**

Maximum heat transmission to the process vessel or equipment allows the use of smaller circulating system pumps, valves and heating coils.

**3. High Thermal Conductivity**

High thermal conductivity and low viscosity at the relevant operating temperatures helps to ensure high heat transferrates with limited pumping energy.

**4. Low Vapor Pressure**

Low vapor pressures at the elevated temperatures minimize evaporation, vapor lock and cavitation, and eliminates the need to high-pressure piping and equipment.

**5. Low Temperature Operation**

Low temperature fluidity assists rapid system start-up.



**Disclaimer.** Data provided in this PDS is based on standard tests under laboratory conditions and is indicative only. Minor variations which do not affect product performance are expected in normal manufacturing. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Recommendations differ between engine manufacturers so always consult your manual. Neither Chevron nor its subsidiaries make any warranty or representation as to the accuracy or completeness of this PDS and neither Chevron nor its subsidiaries accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS. (January 2024)