



ENMAR

# ENMAR MARINE HEAT TRANSFER SPECIAL 32

## PRODUCT DESCRIPTION

**ENMAR MARINE HEAT TRANSFER SPECIAL 32** is a high-quality heat transfer and fast quenching medium. It is thermally stable, has high specific heat and thermal conductivity which gives outstanding performance in direct heating installations operating at bulk temperatures up to maximum 320° C

## APPLICATIONS

- ◆ If used for open system, the operating temperature shall not exceed 210°C for safety purposes.
- ◆ Recommended for use in indirect heating and cooling installations in all kinds of Industrial processes operating at bulk oil temperatures up to maximum 320°C for ISO 32.
- ◆ Closed systems with inert gas sealing up to 290°C.
- ◆ Heating of reaction vessels, driers, moulding machines.
- ◆ Fast Quenching applications.

*Always follow the equipment manufacturer's recommendations.*

## BENEFITS

**ENMAR MARINE HEAT TRANSFER SPECIAL 32 provides:**

- ◆ High resistance to thermal cracking and decomposition.
- ◆ Maximum energy transfer and improved operating efficiency.
- ◆ Low temperature flow characteristics at start-up.
- ◆ Good resistance to the formation of deposits.
- ◆ Good thermal stability.

Technical Data*	
<b>SAE GRADE</b>	<b>32</b>
Density at 29.5 °C, g/cc	0.8682
Kinematic Viscosity at 40 °C mm <sup>2</sup> /s	32
Kinematic Viscosity at 100 °C mm <sup>2</sup> /s	5.4
Viscosity Index	103
Flash Point, COC, °C	220
Pour Point, °C	-12
Fire Point COC, °C	260
Auto Ignition Temperature °C	353
Bulk Oil Temp. (in absence of air) °C	290
Film Temp. (in absence of air) °C	310
Initial Boiling Point °C	372
Final Boiling Point °C	516

## Typical Design Data – ENMAR MARINE HEAT TRANSFER SPECIAL 32

Temperature (°C)	0	20	40	100	150	200	250	300
<b>Density (kg/m<sup>3</sup>)</b>	883	870	857	818	785	753	720	688
<b>Specific heat Capacity, Cp</b>	1,790	1,860	1,930	2,140	2,315	2,490	2,665	2,840
<b>Thermal conductivity (W/m.°C)</b>	0,135	0,134	0,132	0,128	0,125	0,121	0,118	0,114

\*The information prepared provides the typical properties that are considered as representative. Some variation which will not affect performance is possible

## HEALTH AND SAFETY, ENVIRONMENT

The information on this product is available in the ENMAR Material Safety Data Sheet (MSDS) as a guide to the precautions and safe handling of this product and its disposal. For further information we recommend you review the MSDS. Handled correctly there are no special precautions suggested.

Issued by ENMAR

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