

# Opt-Max Thermonix 3A, 4A

## HEAT TRANSFER OIL

Opt-Max Thermonix 3A, 4A are designed for liquid heat circulation of heat transfer systems.



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### Product Description

Opt-Max Thermonix 3A, 4A are high performance heat transfer oil formulated from highly refined paraffinic base stocks and selected additives to enhance oxidation stability, protect against corrosion and prevent air entrainment and foaming.

### Features and Benefits

- Excellent thermal and oxidation stability
- Excellent heat and thermal conductivity that provides rapid heat dissipation.
- Prevent deposits and sludge formation
- Low viscosity enables excellent fluidity and heat transfer over a wide temperature range.
- Low temperature fluidity that facilitates easy starting of cold systems.

### Applications

- Suitable for use in closed, indirect heating and cooling systems operating at bulk oil temperatures up to 320°C.
- Suitable for use in open heating systems operating at maximum operating temperature of up to 200°C.

### Caution

When starting-up a new unit or restarting an existing unit after maintenance or in the case of irregular operation at normal temperature caused by residual moisture in the oil, the temperature of the unit should be reduced to 100°C. Steam should be blown off before resuming operation at normal working temperature.

## Specifications

Product Properties		Thermonix 3A	Thermonix 4A	Testing Methods
Kinematic Viscosity (40°C)	mm <sup>2</sup> /s	29.7	43.9	ASTM D445
Kinematic Viscosity (100°C)	mm <sup>2</sup> /s	5.3	6.8	ASTM D445
Viscosity Index	-	108	98	ASTM D2270
Density at 15 °C	Kg/m <sup>3</sup>	869.0	850.0	ASTM D4052
Flash Point (open)	°C	215	225	ASTM D92
Pour Point	°C	-12	-9	ASTM D97

\* Above product properties are indicative and subject to change without prior notice

## Storage and Handling

- All storage equipment, tanks, pipes, valves and etc. apparatus have to be cleaned thoroughly and inspected to be clean for use before transferring or transporting Opt-Max Thermonix 3A, 4A.
- Opt-Max Thermonix 3A, 4A must be stored in dedicated storage tanks/equipment and it is recommended to be stored in an indoor controlled environment.
- Storage tanks/equipment must be waterproof, mist-proof and free from other mechanical particles.
- Opt-Max Thermonix 3A, 4A must be clearly labelled properly during the entire transportation process to prevent the risk of mixing with other petrol-chemical product.

## Health & Safety

Opt-Max Thermonix 3A, 4A are unlikely to present any significant health or safety hazard when properly used in the recommended application. These products must always be handled with care, particularly avoiding skin contact. For further guidance on Product Health & Safety refer to the appropriate Opt-Max Thermonix 3A, 4A Material Safety Data Sheet.