

ESSOTHERM 500

Heat Transfer Oils

Product Description

ESSOTHERM 500 is a premium quality heat transfer fluid recommended where bulk temperature does not exceed 315°C in closed systems. For open systems, a maximum bulk oil temperature of 180°C is recommended. ESSOTHERM 500 is used for most conventional applications because of its low volatility, good low temperature performance, low corrosivity, relatively low viscosity, and good heat transfer properties.

ESSOTHERM 500 heat transfer fluid is designed to cover a broad range of heat transfer applications. ESSOTHERM 500 is thermally stable and capable of an extremely long service life without deposit formation or viscosity increase provided its temperature limits are not exceeded.

Features & Benefits

ESSOTHERM 500 is an important member of the Esso brand of specialty fluids that have gained a reputation for quality consistency and reliability, even in tough applications. The use of the most modern refining techniques is a key factor in the excellent quality of this product. Like other Esso brand products, ESSOTHERM 500 is manufactured to the highest standards of quality control. ESSOTHERM 500 offers the following benefits:

- High resistance to thermal cracking resulting in long product life and problem-free system operation
- High heat transfer rates and high operating efficiency due to excellent thermal properties and relatively low viscosity
- Good low temperature properties for easy cold starts
- Manufactured under our stringent Product Quality Management System (PQMS)[™] quality control standards

Applications

ESSOTHERM 500 heat transfer oil is recommended for the following applications:

- Closed, cold-oil sealed, indirect heating and cooling systems in all kinds of industrial processes operating at bulk oil temperatures up to a maximum of 315°C and at atmospheric pressure.
- It is used for most conventional heat transfer applications
- Essotherm 500 can be used in open systems provided the bulk temperature does not exceed 180°C
- At higher temperatures, fluid life will be shortened because the rate of thermal degradation increases markedly as temperatures rise above the recommended limit.
- ESSOTHERM 500 can be used in installations where minimum shutdown temperatures are not below about -7°C



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Typical Properties

ESSOTHERM 500

Viscosity, ASTM D 445	
cSt @ 40°C	30.4
cSt @ 100°C	5.4
Pour Point, °C, ASTM D 97, max	-6
Flash Point, °C, ASTM D 92	230
Neutralisation Number, ASTM D 974, mg KOH/g, max	0.05
Specific Gravit, ASTM D 4057	0.857
Micro-Conradson Residue, wt%, D 4530	0.05 max

Health & Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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ExxonMobil Lubricants & Specialties

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