

HITEMP 500

Product Description

The high quality heat transfer fluid of superior thermal stability, produced from a highly refined paraffinic base oil and contain antioxidants, which provide good thermal stability and long service life. It is recommended for use in closed indirect heating systems.

Benefits

- Exhibits good thermal and oxidation stability to resist sludge formation
- Characterizes low evaporation loss
- Provides high flash point and good low-temperature flow characteristics
- Non-corrosive and non-toxic

Applications

- Suitable for closed indirect heating systems which operating temperature below 260 °C.
- Can be used in heat transfer systems requiring temperature control in all industries such as dye-works, bleaching plants ,plastics and plywood industries.
- Service life of 4-6 years depending on operating temperature and applications.

The Moving Innovation 

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Typical Characteristics

Tests	Methods	Units	Results		
Density at 15 °C	ASTM D4052	g/cm ³	0.8523		
Density at 30 °C	ASTM D4052	g/cm ³	0.8428		
Kinematic Viscosity at 40 °C	ASTM D445	mm ² /s	28.87		
Flash Point (COC)	ASTM D92	°C	238		
Autoignition Temperature	ASTM D2155	°C	350		
Maximum bulk temperature		°C	320		
Maximum film temperature		°C	340		
Physical & Thermal Properties versus Temperature		Unit	100 °C	200 °C	300 °C
Density	ASTM D4052	g/cm ³	0.8021	0.7391	0.6755
Kinematic Viscosity	ASTM D445	mm ² /s	5.51	1.45	0.72
Specific Heat		kJ/kg·K	2.31	2.91	3.69
Thermal Conductivity		W/m·K	0.128	0.113	0.100
Vapor Pressure		kPa	0.000	0.127	8.390

Performance Standards

- Heat transfer fluid Q according to DIN 51522
- Classified as ASTM (ISO) 6743 Part 12: Family Q
- Meets ISO-L(QB 300) and ISO-L(QC 320) requirements

Health and Safety

This product shows no significant health or safety hazard when used under the recommended applications and suitable handling.

Avoid the direct contact. Wash immediately after contact. Health and safety information is available on the Safety Data Sheet (SDS) which can be obtained from <http://pttlubricants.pttor.com>

Note: Data and information contained in this publication are based on standard test under laboratory conditions and/or performance test. To consider the use of PTT Lubricants' products in particular application, customer is responsible for determining whether product and information are appropriate for customer conditions or should consult with PTT Lubricants' technical service division. The procedure of using any lubricant may differ or change depended on different machines and their manuals. Therefore, we recommend to read, understand and review the latest SDS in order to ensure the use of product is accomplished safety.