

# HITEMP 600 LT

## Product Description

HITEMP 600 LT is a synthetic-grade heat transfer fluid formulated from alkyl benzene derivatives which provide excellent thermal stability and very long service life. This product performs superb fluid degraded resistance leading to enhance flow ability in the system.

## Benefits

- Exhibits excellent thermal and oxidation stability to reduce fouling from fluid degradation
- Extends service life longer than mineral grade
- It is able to replace mineral hot oil by adding up directly without any concerns (please contact with our technical team for closely consulting).
- Provides low volatility, high flash point and good low-temperature flow characteristics
- Offers high film coefficient enhancing heat transfer efficiency
- Good cleaning property
- Non-corrosive and non-toxic

## Applications

- Suitable for closed indirect heating systems which operating temperature below 280 °C
- Only recommended for liquid phase operation
- Ideal replacement of mineral hot oil
- Can be used in heat transfer systems requiring temperature control in all industries such as offshore, gas processing, textiles, plastics processing, general chemical plant
- Service life of 6-10 years

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## Typical Characteristics

Tests	Methods	Units	Results		
Density at 25 °C	ASTM D 4052-11	kg/m <sup>3</sup>	869.8		
Autoignition Temperature		°C	375		
Flash Point (COC)	ASTM D 92	°C	188		
Maximum bulk temperature		°C	316		
Maximum film temperature		°C	345		
Physical & Thermal Properties versus Temperature		Unit	100 °C	200 °C	300 °C
Density	ASTM D 4052-11	kg/m <sup>3</sup>	818.1	749.2	680.3
Viscosity	ASTM D 445-11	cSt	2.70	0.75	0.36
Specific Heat		kJ/kg°C	2.201	2.499	2.797
Thermal Conductivity		W/m°C	0.120	0.108	0.096
Vapor Pressure		mbar	0.00	10.0	252

## 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>



The product can cause some skin irritation and has flash point higher than 93.4°C

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.

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