

Product Data Sheet

HIPRO HEAT TRANSFER G232

High Quality Inhibited Heat Transfer Oil

PRODUCT FEATURES

HIPRO Heat Transfer G232 is formulated for use in most of direct and indirect fired heat transfer systems with forced circulation where the fluid is subjected to the most severe operating conditions.

It is produced from premium quality mineral oil, high viscosity index and low volatile base oils with higher percentage of saturates for its excellent heat transfer properties at all temperatures ensuring more rapid heating and greater system flexibility. Thermally stable oxidation inhibitor additive is added to enhance its outstanding thermal and oxidation stability which can easily resist thermal cracking and chemical oxidation and maintain in solution any decomposition product that form to maintains heat transfer system efficiency.

APPLICATIONS

For use in both open and closed heat transfer system with forced circulation. For closed system, maximum heater outlet temperature is 305 Degree Celsius and 340 Degree Celsius maximum heater wall temperature. For any open system, the operating temperature shall not exceed 250 Degree Celsius for safety purposes. Open heating system provided that the bulk oil temperature does not exceed 180 Degree Celsius.

SPECIAL PROPERTISE

- ◆ **Excellent thermal efficiency and stability** – helps ensure long oil life through outstanding thermal and oxidation stability which helps prevent sludging or deposit formation inside piping.
- ◆ **Good rust and corrosion protection** – help prevent rusting or corrosive problems in circulating oil system.
- ◆ **Excellent performance at temperature extremes** – outstanding thermal stability helps assure minimal thermal cracking at high temperatures or in repeated cycling from low to high temperatures.
- ◆ **Ease of pumping and circulation** - excellent stability helps assure minimal oxidation and helps prevent sludging or deposit formation inside piping.
- ◆ **Minimized makeup oil** – low vapor pressure combined with low volatility and high flash point means minimum evaporative loss.

CAUTION: Continuous contact with used oil has caused skin cancer in lab animals. Avoid prolonged skin contact. Avoid eye contact. Wash skin thoroughly with soap and water after handling. Flush eyes with water for 15 minutes in case of contact. If swallowed, do not induce vomiting. Contact a physician immediately. **KEEP OUT OF REACH OF CHILDREN.**

TYPICAL SPECIFICATION

PROPERTY	UNIT	TEST METHOD	SPECIFICATIONS
Density at 15 deg C	Kg/l	ASTM D4052	0.8521
Viscosity at 40 deg C	cSt	ASTM D445	28.50
Viscosity at 100 deg C	cSt	ASTM D445	5.19
Viscosity Index		ASTM D 2270	113
Water Content	% m/m	ISO 3733	<0.1
Carbon Residue (Conradson)	% m/m	ISO 10370	0.02
Ash (Oxid)	% m/m	ISO 6245	<0.01
Flash Point COC	deg C	ASTM D 92	220
Fire Point COC	deg C		245
Pour Point	deg C	ASTM D 97	-18

* The above specifications are typical of current production, variation in these characteristics may occur, but will not affect the product performance.

CAUTION: Continuous contact with used oil has caused skin cancer in lab animals. Avoid prolonged skin contact. Avoid eye contact. Wash skin thoroughly with soap and water after handling. Flush eyes with water for 15 minutes in case of contact. If swallowed, do not induce vomiting. Contact a physician immediately. **KEEP OUT OF REACH OF CHILDREN.**