

PETRONAS DANOL XHT 46

High Quality Inhibited Heat Transfer Fluid

PETRONAS Danol XHT 46 is a high quality heat transfer oil formulated for use in most of direct and indirect fired heat transfer systems with forced circulations where the fluid is subjected to the most severe operating conditions.

It is made from premium quality high viscosity index paraffinic base oils for its excellent heat transfer properties (specific heat and thermal conductivity) at all temperatures to provide more rapid heating and greater system flexibility. A thermally stable oxidation inhibitor additive is added to enhance its outstanding thermal and oxidation stability which can easily resist thermal cracking and chemical composition and maintain in solution any decomposition product that form to maintain heat transfer efficiency.

Applications

For use in both open and closed heat transfer system with forced circulation. For closed system, maximum heater outlet temperature is 305 °C and 320 °C for maximum heater wall temperature.

For any open system, the operating temperature shall not exceed 200 °C for safety purposes.

Operating Advice

- When starting up new unit or restarting a unit after maintenance work or a unit operating irregularly, the temperature of the unit should be reduced to around 100 °C and the steam blow off before returning to the normal operating temperature.

Customer Benefits

- Outstanding resistance to thermal cracking and oxidation thus preventing excessive sludge and coke deposits formation for longer oil service life.
- High thermal conductivity – heats quickly for fuel economy and even heat distribution.
- Low vapour pressure – minimize fluid loss due to evaporation, vapour lock and hazards of flammability.
- Low Temperature start-up for prompt circulation.
- Non-corrosive to aluminum, brass, bronze, copper, and steel

Product Typicals

Characteristics	Value
Density @ 15 °C, kg/l	0.870
Pour Point, °C	-9
Flash Point, °C	218
Kinematic Viscosity, cSt	
@ 40 °C	45.9
@ 100 °C	7.1
Viscosity Index	112

Customer Advice

For further assistance on product MSDS, recommendation or technical queries, please liaise with the regional Technical Services Engineer or contact HQ Technical Engineers.