

PETROGULF THERM OILS

PetroGulf Therm Oils are specialized products made from highly refined, high Viscosity Index, paraffinic base oils. They are nontoxic and exhibit excellent resistance to thermal cracking and oxidation. The high heat content and high thermal conductivity facilitates rapid heating and efficient operation of the heat transfer system. The heat transfer fluid is to be used in systems with forced circulation.

APPLICATIONS

- Thermal fluid heating system
- Oil circulation system
- Open systems operating at temperatures up to 200°C and closed systems operating at bulk oil temperatures up to 320°C

TYPICAL PROPERTIES

PETROGULF THERM OIL		
ISO GRADE	32	46
Properties	Typical Result	
Specific Gravity, 15 °C	0.880	0.890
Autoignition Temperature, °C	350	360
Flash Point (COC), °C	210	215
Viscosity		
cSt @ 40 °C	28 - 32.50	40.30 - 46.00
cSt @ 100 °C	4.80 - 5.30	5.80 - 6.52
Viscosity Index	102	100
Pour Point, °C	-12	-9
Physical & Thermal Properties Vs. Temp	100 °C / 200 °C / 300 °C	100 °C / 200 °C / 300 °C
Density, kg/L	0.82 / 0.76 / 0.69	0.83 / 0.77 / 0.70
Dynamic Viscosity, cP	4.35 / 1.05 / 0.46	5.40 / 1.20 / 0.52
Specific Heat, KJ/Kg, °C	2.15 / 2.51 / 2.88	2.12 / 2.50 / 2.87
Thermal Conductivity, W/m °C	0.128 / 0.120 / 0.112	0.126 / 0.119 / 0.112
Vapor Pressure, mm/Hg	-3.5, 150	- 2.0, 100

** These characteristics are typical of current production. Whilst future production will conform to Petrogulf's specification, variations in these characteristics may occur.

HANDLING, HEALTH AND SAFETY

- Lubricants consisting of highly refined mineral oils with specific additives under normal conditions of use, presents no particular toxic hazard. All lubricants, of any kind should be handled with great care, particularly avoiding any contact with skin.
- Prevent any splashing and keep away from combustible materials. Store under cover and away from any risk of pollution. Dispose off used oil correctly; don't pour down drains, into water courses or the soil.
- Take used oil to an authorized collection point.