

# PRODUCT DATA SHEET



## HEAT TRANSFER FLUIDS – MINERAL OIL BASED

### PALTHERM – 500, 600

These are high performance products designed for heat transfer in Textile, Pharmaceutical, Chemical and Processing Industries, equipped with indirect or secondary heating systems. They possess excellent resistance to thermal cracking and chemical oxidation and are non-corrosive and non-toxic. They possess high specific heats and thermal conductivities that provide good heat transfer efficiency and their viscosities are such that they can be pumped readily at both start-up and operating temperatures.

**PALTHERM** Heat Transfer Fluids are formulated from very stable high viscosity index base oils, coupled with a low pour point and fortified with high temperature oxidation inhibitors.

**PALTHERM** Heat Transfer Fluids are **recommended** for use in closed, forced circulation with indirect or secondary heating systems, equipped with expansion tanks. The temperature of the oil film surrounding the heating element should be about 15°C to 30°C above the bulk oil temperature. Higher than this may lead to deposit of sludge and coke which would interfere with the heat transfer rates and also shorten the service life of the oil.

PALTHERM - 500 and PALTHERM - 600 grades are suitable for heat transfer system operating up to 290°C & 310°C respectively.

These oils are **not recommended** for use in open systems where hot oil is exposed directly to the air. If they spray or escape from leakage points, hot oils may spontaneously ignite.

CHARACTERISTICS			
S. NO.	PROPERTIES	PALTHERM	
		500	600
1.	Kinematic Viscosity, cSt @40°C	28-32	32-35
2.	Viscosity Index, min.	95	95
3.	Flash Point, COC, °C, min.	200	210
4.	Pour Point, °C, min.	-3	-3
5.	Copper Strip Corrosion, 3 hrs. @100°C, (ASTM), max.	1	1
6.	Neut. Number, mg KOH/gm., max.	0.15	0.15

\* The specifications are subject to variations/ development / customization.

**PACKING:** 210L, 50L, 20L