POWEROIL THERM
PREMIUM HEAT TRANSFER FLUID

POWEROIL THERM 500 & 600 are premium quality mineral oil based heat transfer fluids formulated from best in class highly refined base stocks. They contain carefully chosen antioxidants that provide outstanding resistance to oil degradation on continues usage at high temperatures.

Due to their high specific heat and better thermal conductivity characteristics at wide temperature ranges, they provide rapid heating and greater flexibility in heat transfer systems.

CHARACTERISTICS	POWEROIL THERM	
	500	600
Appearance	Clear	Clear
Colour	< 1	< 1
Density @29.5 °C	0.848	0.847
Kinematic Viscosity, cSt, @ 40°C	30	31
Viscosity index, Min.	103	104
Flash point, Open, °C, Min.	216	218
Flash point, Closed, °C	212	214
Fire point °C	230	230
Pour point, °C, Max.	- 15	-15
TAN, mg KOH/g.	0.3	0.3
Ignition temperature °C	>350	>350
Initial boiling point °C	362	367
Final boiling point °C	440	442
CCR Wt %	<0.02	<0.02
Coefficient of thermal expansion (/,^{0} C)	0.00070	0.00070

The above properties are typical values and do not constitute specification of the product

APPLICATION:

- Suitable for direct and secondary heating in conventional heat transfer operations in textile, pharmaceutical, chemical and processing Industries.
- Poweroil therm 500 is recommended for use in heat transfer systems operating with bulk oil temperature up to 300 ^{0} C.

- Poweroil therm 600 provides superior performance on account of its low sulphur content and CCR value and is recommended for well designed heat transfer systems operating at bulk temperature up to 320^0 C.
- Recommended for use in heat transfer systems operating with bulk oil temperature up to 300^0 C.

ADVANTAGES OF USING MINERAL OIL OVER WATER/STEAM:

- Mineral oils have high boiling point and therefore can be used without pressurization at maximum bulk temperature.
- Absence of high pressure facilitates efficient compact units and associated space savings.
- Low volatility.

PERFORMANCE BENEFITS:

- Long and trouble free service life in well designed heat transfer systems due to high thermal and oxidation stability.
- Excellent heat transfer medium due to high specific heat and good thermal conductivity, which enable more flexibility in heat transfer systems.
- Efficient performance in wider range of temperatures.
- Free from toxicity and obnoxious odour.