



## POWER THERM SYN - 600 SYNTHETIC HEAT TRANSFER FLUID

POWER THERM SYNTH 600 is a Synthetic Heat transfer fluid used in moderate temperature applications (-25 °C to 300 °C). Powertherm Syn 600 is formulated with selective synthetic base Fluid fortified with an exclusive and carefully selected Anti oxidants and anti sludge additive System to ensure higher performance throughout their long service life.

CHARACTERISTICS	Powertherm Syn 600
Appearance	Clear
Colour	<0.5
Moisture content ppm	< 80
Density @ 29.5 °C	0.865
Kinematic Viscosity, cSt, @ 40 °C	20.55
@ 60 °C	10.12
@ 100 °C	3.82
@ 200 °C	1.05
@ 300 °C	0.6
Viscosity index,	54
Flash point, Open, °C, min	180
Flash point, Closed, °C, min	172
Fire point °C	>240
Pour point, °C, max	-51
TAN, mg KOH/g. max.	0.01
Spontaneous ignition temperature °C	>350
Initial boiling point °C	340
Final boiling point °C	399
Coefficient of thermal expansion (/0 C)@ 200 °C	0.00092

### APPLICATION:

Power Therm Synth 600 is used in wide variety industries such as

- Natural Gas purification
- Plastics Moulding process
- Biodiesel
- Textile
- Pharmaceuticals & chemical & Process Industries

Powertherm Synth 600 is recommended for use in heat transfer systems operating with bulk oil temperature up to 300<sup>o</sup> C. Due to its high specific heat and better thermal conductivity at all temperatures, this oil provides rapid heating and greater flexibility in heat transfer systems. Powertherm Syn 600 provides superior performance on

Disclaimer: APAR makes no warranties, representation or conditions of any kind expressed or implied for use with respect to these products. Final determination of suitability of the products for the application contemplated by the user is solely their responsibility.



account of its very high Oxidation stability value and good Thermal Stability properties

## Product Benefits

- Long Life – It is a narrow boiling range Synthetic fluid with very high thermal and oxidation stability and hence offers long reliable service and cost effective performance when operated at maximum temperature of 300 Deg C
- Excellent heat transfer medium due to high specific heat and good thermal conductivity, which enables more flexibility in heat transfer systems
- Absence of high pressure facilitates efficient compact units and associated space savings
- Low Temperature Pumpability – Due to very Low Pour point Power Therm Syn 600 is pumpable at – 25 Deg C so that the fluid system can start up quickly and easily
- Efficient performance in wider range of temperatures.
- Free from toxicity and obnoxious odour

(Version # 1 15<sup>th</sup> Nov 2012)

Disclaimer: APAR makes no warranties, representation or conditions of any kind expressed or implied for use with respect to these products. Final determination of suitability of the products for the application contemplated by the user is solely their responsibility.