

POWEROIL THERM 600 (FG)

HIGH PERFORMANCE NSF APPROVED FOOD GRADE HEAT TRANSFER OIL

POWEROIL THERM 600 (FG) is premium quality mineral oil based, Food grade (HT-1) heat transfer fluid formulated from best- in class highly refined base stocks and food grade high performance antioxidants to provide outstanding resistance to oil degradation on continuous usage at high temperatures.

Due to high specific heat and better thermal conductivity characteristics at wide temperature ranges, the product provides rapid heating and greater flexibility in heat transfer systems.



Nonfood Compounds
Program Listed

Category Code: HT1, HT2
NSF Registration No - 161143

| CHARACTERISTICS | POWEROIL THERM 600 (FG) |
|---|-------------------------|
| Appearance | Clear |
| Colour | <1 |
| Density @ 29.5 °C | 0.845 |
| Kinematic Viscosity, cSt, @ 40 °C | 31 |
| Viscosity Index, Min | 104 |
| Flash point, Open, °C, Min | 216 |
| Flash point, Closed, °C | 212 |
| Fire point °C | 230 |
| Pour point, °C, Max. | -15 |
| TAN, mg KOH/g. | 0.3 |
| Ignition temperature °C | >350 |
| Initial boiling point °C | 367 |
| Final boiling point °C | 442 |
| CCR Wt % | <0.02 |
| Coefficient of thermal expansion (/, °C) | 0.00070 |

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

APPLICATION:

- Ideal for food-processing applications, Food-grade systems and Industries like edible oil refinery, Spices, Herbs, Snacks, Sweets, Restaurant, Bakery, Dairy, Confectionery items etc.
- Poweroil Therm 600 (FG) meets USDA requirements for incidental food contact (H1) and meets the requirements of 21CFR 178-3570 and is NSF registered (HT1, HT2)
- Suitable for direct and secondary heating in conventional heat transfer operations in textile, pharmaceutical, chemical and processing Industries.
- Poweroil Therm 600 (FG) 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°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.
- Long service life.