

TM-HTF-100 Heat Transfer Fluid

Inert dielectric perfluorocarbon (PFC) heat transfer fluid with outstanding dielectric strength. Wide boiling and pour point ranges along with low viscosity and a narrow toxicity profile allow for an expansive range of use. Nonflammable, no auto-ignition point, and noncorrosive.

Applications

- Semiconductor manufacturing
- Supercomputing
- Aviation and military electronics
- Pharmaceutical manufacturing
- Chemical manufacturing

Properties and Usage Benefits

- Compatible with metals, plastics and elastomers
- Low toxicity profile
- Nonflammable for safe working conditions
- Wide range of operating temperatures and pour points
- Residue free and colorless

Material Compatibility

Compatible with most metals, plastics and elastomers.

Safety

HTF fluids are not irritating to the skin and eyes and have a low toxicity profile. HTF heat transfer fluids are not flammable or susceptible to thermal breakdown during storage and normal use.

Properties	
Tyrell Part #	TM-HTF-100
Fisher Scientific Part # (Air Freight)	502120275
Fisher Scientific Part # (Sea Freight)	502120276
Type	PFC
Boiling point	95 °C
Pour point	< - 80 °C
Density	1.77 g/cm ³
Kinematic viscosity	1.12 cSt
Vapor pressure	80.25 torr
Specific heat	0.25 cal/g·°C
Heat of vaporization at boiling point	23.8 cal/g
Refractive index	1.28
Coefficient of thermal expansion	0.0013 ·°C
Surface tension	14.2 dyne/cm
Thermal conductivity	0.065 W/m-K
Dielectric strength	39 kV
Dielectric constant	2.03
Volume resistance	1·10 ¹⁵ Ohm·cm
Average molecular weight	390 amu
Dissipation factor (1 Khz)	1·10 ⁻⁴
Solubility of water	1.79 ppm (wt)
Solubility of air	26 cm ³ gas

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