

TM-HT-200 Heat Transfer Fluid

TM-HT-200 is part of Tyrell Chemical's perfluoropolyether (PFPE) line of inert, dielectric heat transfer fluid. Designed for extreme conditions, these high-performance fluids are part of a product line that features a wide range of boiling points. TM-HT-200 fluids have a high boiling point of 200°C and are generally compatible with plastics, elastomers and metals. TM-HT-200 fluids have no fire, flash or auto-ignition points and are inflammable.

Applications

- Semiconductor manufacturing
- Pharmaceutical manufacturing
- Chemical manufacturing
- Vapor phase heating
- Transformers
- Recirculating chillers
- Compute cooling

Properties and Usage Benefits

- Optimal thermal transfer and performance
- Reduced evaporation losses
- Wide material compatibility with no corrosion, degradation or decomposition residues
- No toxicity, flammability, or explosion hazards

Material Compatibility

Metals

 Copper, brass, iron, nickel, stainless steel, aluminum, bronze, AISI 316

Plastics

Polycarbonate, polypropylene, ABS copolymer, polyphenyloxide, PE low density, PET, POM, PTFE, PVC, PMMA

Elastomers

 Natural rubber, silicone rubber, butyl rubber, fluorosilicone, NBR, EPDM

*Safe with hydrocarbon-based plasticizers that allow for compatibility with almost all seals and gaskets

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Properties	
Tyrell Part #	TM-HT-200
Fisher Scientific Part # (Air Freight)	502120245
Fisher Scientific Part # (Sea Freight)	502120241
Туре	PFPE
Boiling point	200 ℃
Pour point	-85 °C
Density	1.79 g/cm3
Kinematic viscosity	2.4 cSt
Vapor pressure	0.2 torr
Specific heat	0.23 cal/g⋅°C
Heat of vaporization at boiling point	15 cal/g
Refractive index	1.281
Coefficient of thermal expansion	0.0011 .℃
Surface tension	19 dyne/cm
Thermal conductivity	0.065 W/m-K
Dielectric strength	40 kV
Dielectric constant	1.94
Volume resistance	6·10 ¹⁵ Ohm·cm
Average molecular weight	870 amu
Dissipation factor (1 Khz)	2·10-4
Solubility of water	14 ppm (wt)
Solubility of air	26 cm ³ gas

Safety

HT fluids are safe to handle as they are inert, noncorrosive, nonflammable and nontoxic. HT fluids possess no flash, fire or auto-ignition points.

