

# Galden® HT170 perfluoropolyether

Galden® HT PFPE are inert, dielectric and high-performance heat transfer fluids with boiling points ranging from 55°C to 270°C. This range is broader than other fluorinated heat transfer fluids and enables PFPE to be used at end-use temperatures up to 290°C. Syensqo offers a reliable and non-flammable Heat Transfer (HT) media for demanding applications, including:

- Semiconductor
- Chemical
- Pharmaceutical
- Vapor phase heating
- Transformer and super computer cooling
- Recirculating chillers
- Nuclear

## General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Chemical Resistant • High Density • High Heat Resistance
Forms	• Liquid

## Physical

	Typical Value	Unit
Density	1.77	g/cm <sup>3</sup>
Average Molecular Weight	760	amu
Kinematic Viscosity	1.80	cSt
Solubility		
of air	26.0	ml gas/100 ml liquid
of water	< 10.0	wppm
Surface Tension	18	dyne/cm
Vapor Pressure	0.8	torr

## Thermal

	Typical Value	Unit
Boiling Point	170	°C
Heat of Vaporization - at Boiling Point	16.0	cal/g
Pour Point	-97	°C
Specific Heat Capacity (25°C)	0.23	cal/g/°C

## Electrical

	Typical Value	Unit
Dielectric Constant	1.94	
Dielectric Strength - 2.54mm gap	40	kV
Dissipation Factor - 1 KHz	2.0E-4	
Volume Resistance	1.5*10E15	ohms-cm



# Galden® HT170

## perfluoropolyether

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Optical	Typical Value	Unit	Test method
Refractive Index	1.28		ASTM D542

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### Additional Information

Thermal Conductivity: 0.065 W/m°C

Coefficient of Expansion: 0.0011 cm<sup>3</sup>/cm<sup>3</sup>°C

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## Notes

Typical properties: these are not to be construed as specifications.

