

Galden® HT270

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	1.85	g/cm ³
Average Molecular Weight	1550	amu
Kinematic Viscosity	14.0	cSt
Solubility		
of air	26.0	ml gas/100 ml liquid
of water	<10.0	wppm
Surface Tension	20	dyne/cm
Vapor Pressure	<10E-2	torr

Thermal

	Typical Value	Unit
Boiling Point	270	°C
Heat of Vaporization - at Boiling Point	15.0	cal/g
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
Volume Resistance	6*10E15	ohms-cm

Optical

	Typical Value	Unit	Test method
Refractive Index	1.28		ASTM D542

Additional Information

Thermal Conductivity (25°C): 0.065 W/m°C
Coefficient of Expansion: 0.0011 cm³/cm³°C

