

Galden® HT55 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	• Asia Pacific • Europe • North America
Features	• Good Thermal Stability
Forms	• Liquid

Physical

	Typical Value	Unit
Density	1.65	g/cm ³
Average Molecular Weight	340	amu
Kinematic Viscosity	0.450	
Solubility		
of air	26.0	ml gas/100 ml liquid
of water	< 10.0	wppm
Surface Tension	14	dyne/cm
Vapor Pressure	225	torr

Thermal

	Typical Value	Unit
Thermal Conductivity	0.065	W/m/k
Boiling Point	55	°C
Heat of Vaporization - at Boiling Point	22.0	cal/g
Pour Point	< -125	°C
Specific Heat Capacity (25°C)	0.23	cal/g/°C

Electrical

	Typical Value	Unit
Volume Resistivity	1.0E+12	ohms-cm
Dielectric Constant	1.86	
Dielectric Strength - 2.54 mm gap	40	kV
Dissipation Factor - 1 KHz	2.0E-4	



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Optical	Typical Value	Unit	Test method
Refractive Index	1.28		ASTM D542

Additional Information

Coefficient of thermal expansion: 0.0011 cm³/cm³°C

All values determined at 25 °C unless otherwise specified.

Notes

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

