

Galden® HT110 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	1.71	g/cm ³
Average Molecular Weight	580	amu
Kinematic Viscosity	0.770	cSt
Solubility		
of air	26.0	ml gas/100 ml liquid
of water	< 10.0	wppm
Surface Tension	16	dyne/cm
Vapor Pressure	17	torr

Thermal

	Typical Value	Unit
Boiling Point	110	°C
Heat of Vaporization - at Boiling Point	17.0	cal/g
Pour Point	-100	°C
Specific Heat Capacity	0.23	cal/g/°C

Electrical

	Typical Value	Unit	Test method
Dissipation Factor (1 kHz)	2.0E-4		ASTM D150
Dielectric Constant	1.92		
Dielectric Strength - 2.54mm gap	40	kV	
Volume Resistance	1.5*10E15	ohms-cm	



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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

Notes

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

