

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.

www.syensqo.com

Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

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