Galden® HT80
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
Forms	• Liquid	

Physical	Typical Value	Unit
Average Molecular Weight	430	
Density (25°C)	1.69	g/cm³
Kinematic Viscosity	0.570	cSt
Solubility		
of air	26.0	ml gas/100 ml liquid
of water	< 10.0	wppm
Surface Tension (25°C)	16	dyne/cm
Vapor Pressure (25°C)	105	torr

Thermal	Typical Value	Unit
Thermal Conductivity (25°C)	0.065	W/m/K
Boiling Point	80	°C
Heat of Vaporization - at Boiling Point	17.0	cal/g
Pour Point	-110	°C
Specific Heat Capacity (25°C)	0.23	cal/g/°C

Electrical	Typical Value	Unit
Volume Resistivity (25°C)	1.0E+15	ohms·cm
Dielectric Constant (25°C)	1.89	
Dielectric Strength - 2.54 mm gap (25°C)	40	kV
Dissipation Factor - 1 Khz	2.0E-4	

Optical	Typical Value	Unit	Test method
Refractive Index	1.28		ASTM D542

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Additional Information

Coefficient of thermal expansion: 0.0011 cm3/cm3°C

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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