



## Heat Transfer Fluids

# DOWTHERM™ and SYLTHERM† Heat Transfer Fluids

- The World's Most Complete Line of Performance Fluids
- Your Leading Source for Technical Expertise, Service and Support
- The Right Synthetic Organic or Silicone Fluid for Your Application

Typical Properties <sup>1</sup>	Temperature Use Range, °F liquid (vapor)	Vapor Pressure, psia at max. use temp	Thermal Conductivity, Btu/(hr · ft <sup>2</sup> )(°F/ft) at min. use temp. (at max. use temp.)	Specific Heat, Liquid, Btu/(lb · °F) at min. use temp. (at max. use temp.)	Viscosity, cps at min. use temp. (at max. use temp.)	Density, Liquid, lb/ft <sup>3</sup> at min. use temp. (at max. use temp.)	Freezing Point, °F	Flash Point, °F, Closed Cup	Autoignition Temperature, °F, ASTM E659-78
DOWTHERM™ A Diphenyl Oxide/ Biphenyl Blend	60 to 750 (495 <sup>3</sup> to 750)	152.02	0.081 (0.045)	0.373 (0.644)	4.91 (0.13)	66.37 (42.57)	53.6	236	1139
DOWTHERM™ G Mixture of Di- and Tri-Aryl Ethers	20 to 680	49.12	0.074 (0.047)	0.363 (0.565)	146 (0.23)	70.34 (51.68)	<40	266	1083
DOWTHERM™ J Alkylated Aromatic	-110 to 600 (358 <sup>3</sup> to 600)	174.52	0.086 (0.037)	0.376 (0.721)	9.67 (0.164)	58.31 (35.46)	<-100	136	788
DOWTHERM™ Q Mixture of Diphenylethane and Alkylated Aromatics	-30 to 625	48.08	0.084 (0.048)	0.353 (0.618)	48.2 (0.187)	63.23 (45.88)	-30	249	773
DOWTHERM™ RP Diaryl Alkyl	30 to 660	13.63	0.0775 (0.0513)	0.372 (0.621)	249 (0.32)	65.25 (49.12)	<-4	381	725
DOWTHERM™ MX Mixture of Alkylated Aromatics	-10 to 625	15.1	0.0735 (0.0523)	0.351 (0.625)	281.7 (0.20)	61.9 (44.8)	-13	329	788
DOWTHERM™ T C <sub>14</sub> to C <sub>30</sub> Alkyl Benzene Derivatives	14 to 550	2.6	0.081 (0.043)	0.446 (0.659)	252 (0.39)	55.81 (43.03)	<14	370	707 <sup>b</sup>
SYLTHERM <sup>1</sup> 800 <sup>2</sup> Polydimethylsiloxane	-40 to 750	197.32	0.085 (0.037)	0.360 (0.539)	51.0 (0.25)	61.9 (34.3)	<-40	320 <sup>a</sup>	725 <sup>b</sup>
SYLTHERM XLT <sup>1</sup> Polydimethylsiloxane	-150 to 500	75.46	0.078 (0.0295)	0.320 (0.541)	90.17 (0.18)	59.3 (35.2)	-158	116	662 <sup>b</sup>
SYLTHERM <sup>1</sup> HF Polydimethylsiloxane	-100 to 500	39.76	0.0752 (0.0274)	0.347 (0.543)	16.65 (0.22)	60.31 (39.28)	<-115	145	671 <sup>b</sup>

<sup>1</sup>Properties shown are typical and should not be considered specifications

<sup>2</sup>Properties for aged fluid except flash point, viscosity

<sup>3</sup>Boiling Point at atmospheric pressure

<sup>a</sup>Properties of fluid as supplied. Properties may differ after extended use.

<sup>b</sup>ASTM D2155

For more information, visit

[www.dow.com/heattrans](http://www.dow.com/heattrans)

©™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

† SYLTHERM® is a trademark of Dow Corning Corporation, U.S.A. It is distributed by Dow, for Dow Corning.

Form No. 176-01545-0414