

Dynalene LO-170

High Flash/Nontoxic Low Temperature Fluid Information

Dynalene[®] LO-170[®] heat transfer fluid is a non-toxic, thermally effective, odorless fluid. Dynalene LO-170[®] is designed to accommodate open bath or closed loop heat transfer systems. When operator safety and environmental impact are important to you, consider Dynalene LO-170[®].

The Dynalene "LO" family of fluids, including Dynalene HF-LO[®], Dynalene LO-170[®] and Dynalene LO-230[®], all consistently provide a high-level of user friendly performance to meet expectations of the customer.



Typical Properties of Dynalene LO-170[®]

Composition: Aliphatic Hydrocarbon Blend

Appearance and Color: Transparent, clear colorless liquid

Property	SI units	US units
Freeze Point:	<-60°C	<-76°F
Boiling Point:	>223°C	>433°F
Flash Point (closed cup):	>77°C	>170°F
Viscosity ¹ :	2.6 mP*s	2.6 cP
Specific Gravity ² :		0.79
Specific Heat ² :	1.88 kJ/kg K	0.45 Btu/(lb °F)
Thermal Conductivity ² :	0.11245 W/m K	0.065 Btu/(ft hr °F)
	¹ : @ -7°C (20°F)	
	² : @ 20°C (68°F)	

Recommended Temperature Ranges:

Open System: -40°C (-40°F) to 74°C (165°F)
Closed System: -40°C (-40°F) to 205°C (400°F)

Polymer and Gasket Compatibility

- ◆ Acetal
- ◆ Aramid Fiber
- ◆ Chemraz (FFKM)
- ◆ Epoxy
- ◆ Fluorocarbon (FILM)
- ◆ Fluoroelastomer
- ◆ Glass Fiber
- ◆ Gylon Style 3500, 3504, & 3510
- ◆ Kalrez
- ◆ Kel-F (CTFE)
- ◆ Peek
- ◆ PTFE
- ◆ Teflon (All)
- ◆ Teflon Encapsulated Silicone
- ◆ Teflon Encapsulated Viton
- ◆ Teflon Impregnated Fiberglass
- ◆ Viton
- ◆ Resin Impregnated Carbon Graphite

Metal Compatibility

- ◆ Aluminum
- ◆ Brass
- ◆ Bronze (All)
- ◆ Carbon Steel
- ◆ Cast Steel
- ◆ Copper
- ◆ Copper Nickel
- ◆ Monel
- ◆ Nickel
- ◆ Stainless Steel (All)
- ◆ Stainless Steel Clad
- ◆ Tantalum
- ◆ Titanium

For more technical, health and safety information or to request a Material Safety Data Sheet (MSDS), contact our Dynalene sales representative at:
Phone: 610-262-9686 Fax: 610-262-7437 E-mail: info@dynalene.com

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Temperature °F	Viscosity cP	Thermal Conductivity Btu/hr•ft•F	Specific Heat Btu/lb•F	Density lb/ft ³
-40	33.2	0.0732	0.395	50.1
-20	15.9	0.0719	0.405	49.7
0	9.1	0.0706	0.415	49.4
20	5.8	0.0693	0.425	49.0
40	4.0	0.0680	0.435	48.7
60	2.9	0.0667	0.445	48.3
80	2.3	0.0654	0.455	48.0
100	1.8	0.0641	0.465	47.6
120	1.4	0.0627	0.476	47.3
140	1.2	0.0614	0.486	46.9
160	1.0	0.0601	0.496	46.6
180	0.84	0.0588	0.506	46.3
200	0.73	0.0575	0.516	45.9
220	0.63	0.0562	0.526	45.6
240	0.56	0.0549	0.536	45.2
260	0.49	0.0536	0.546	44.9
280	0.44	0.0523	0.556	44.5
300	0.39	0.0510	0.566	44.2
320	0.35	0.0497	0.576	43.8
340	0.32	0.0484	0.586	43.5
360	0.29	0.0471	0.597	43.1
380	0.27	0.0458	0.607	42.8
400	0.25	0.0444	0.617	42.4

Temperature °C	Viscosity mPa•s	Thermal Conductivity W/m•K	Specific Heat kJ/kg•K	Density kg/m ³
-40	33.2	0.1245	1.652	804
-30	16.9	0.1225	1.690	799
-20	10.0	0.1205	1.728	794
-10	6.6	0.1185	1.766	789
0	4.6	0.1165	1.804	784
10	3.4	0.1145	1.842	779
20	2.6	0.1125	1.880	774
30	2.1	0.1105	1.918	769
40	1.7	0.1085	1.956	764
50	1.4	0.1065	1.994	759
60	1.2	0.1045	2.032	754
70	1.0	0.1025	2.070	749
80	0.87	0.1005	2.108	744
90	0.76	0.0985	2.146	739
100	0.67	0.0965	2.184	734
110	0.59	0.0945	2.222	729
120	0.53	0.0925	2.260	724
130	0.48	0.0905	2.298	719
140	0.43	0.0885	2.336	714
150	0.39	0.0865	2.374	709
160	0.35	0.0845	2.412	704
170	0.32	0.0825	2.450	699
180	0.30	0.0805	2.488	694
190	0.28	0.0785	2.526	689
200	0.25	0.0765	2.564	684
205	0.24	0.0755	2.583	681

Vapor Pressure of Dynalene LO-170

