

Dynalene HF-LO

High Flash/Nontoxic Low Temperature Fluid Information

Dynalene® HF-LO heat transfer fluid is engineered to offer nontoxic and low odor qualities. Dynalene HF-LO is an environmentally sound, thermally effective with a high flash point. When operator safety, environmental impact and price are your requirements, Dynalene HF-LO is your solution.

Typical Properties of Dynalene HF-LO

Composition: Aliphatic Hydrocarbon Blend
Appearance and Color: Transparent, clear colorless

Property	SI units	US units
Freeze Point:	<-118°C	<-180°F
Boiling Point:	>191°C	>376°F
Flash Point (closed cup):	>61°C	>141°F
Flash Point (open cup):	68.8°C	156°F
Fire Point:	72°C	162°F
Autoignition Temp:	>337°C	>640°F
Critical Temp ¹ :	394°C	741°F
Critical Pressure:	27 bar	26.7 atm
Avg. Molecular Wgt:		150
Dielectric Constant:		2.1-2.2

¹—estimated

Open Bath Applications

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. For more information on any of the LO family of fluids or to find out if one of the Dynalene “LO” family of fluids is right for your application give us a call at 610-262-9686.

Recommended Temperature Ranges:

Open System: -52°C (-60°F) to 58°C (135°F)
Closed System: -73°C (-100°F) to 177°C (350°F)

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

Dynalene HF-LO

Temperature °F	Viscosity cP	Thermal Conductivity Btu/hr•ft•°F	Specific Heat Btu/lb•°F	Density lb/ft ³
-100	72.530	0.0749	0.416	51.9
-80	27.994	0.0736	0.426	51.4
-60	14.125	0.0722	0.436	50.9
-40	8.403	0.0709	0.446	50.3
-20	5.544	0.0696	0.456	49.8
0	3.924	0.0683	0.466	49.3
20	2.920	0.0670	0.476	48.8
40	2.256	0.0657	0.487	48.2
60	1.795	0.0644	0.497	47.7
80	1.462	0.0631	0.507	47.2
100	1.213	0.0618	0.517	46.7
120	1.023	0.0605	0.527	46.1
140	0.874	0.0592	0.537	45.6
160	0.755	0.0579	0.547	45.1
180	0.659	0.0566	0.557	44.6
200	0.581	0.0553	0.567	44.0
220	0.515	0.0539	0.577	43.5
240	0.460	0.0526	0.587	43.0
260	0.413	0.0513	0.598	42.5
280	0.374	0.0500	0.608	41.9
300	0.339	0.0487	0.618	41.4
320	0.309	0.0474	0.628	40.9
340	0.283	0.0461	0.638	40.3
350	0.271	0.0455	0.643	40.1

Temperature °C	Viscosity mPa•s	Thermal Conductivity W/m•K	Specific Heat kJ/kg•K	Density kg/m ³
-73	70.155	0.1272	1.742	833
-70	52.665	0.1266	1.753	831
-60	23.989	0.1246	1.791	823
-50	13.329	0.1226	1.829	816
-40	8.403	0.1206	1.867	808
-30	5.759	0.1186	1.905	800
-20	4.186	0.1166	1.943	793
-10	3.176	0.1146	1.981	785
0	2.491	0.1126	2.019	778
10	2.006	0.1106	2.057	770
20	1.649	0.1086	2.095	762
30	1.380	0.1066	2.133	755
40	1.171	0.1046	2.171	747
50	1.006	0.1026	2.209	740
60	0.874	0.1006	2.247	732
70	0.766	0.0986	2.285	724
80	0.677	0.0966	2.323	717
90	0.603	0.0946	2.361	709
100	0.540	0.0926	2.399	702
110	0.486	0.0906	2.437	694
120	0.441	0.0886	2.475	686
130	0.401	0.0866	2.513	679
140	0.366	0.0846	2.551	671
150	0.336	0.0826	2.589	664
160	0.309	0.0806	2.627	656
170	0.286	0.0786	2.665	649
177	0.271	0.0772	2.692	643