

High-Flash, Non-Toxic, Low-Temperature Heat Transfer Fluid

Process Applications

- Low temperature applications
- Pharmaceutical
- Food and beverage
- Process cooling & heating
- Calibration baths
- Small circulation systems
- Refrigeration systems
- Reactor cooling
- Open temperature baths

■ Dynalene LO-230 Overview

Dynalene LO-230 heat transfer fluid is designed to satisfy the most demanding customer application when safety and performance are of the utmost importance. LO-230 is a non-toxic, odorless fluid with a high flash point and auto-ignition temperature. It can be used in a variety of different applications, including open temperature baths or closed loop industrial systems.

Dynalene LO-230 is a food-safe product used in pharmaceutical, food & beverage, and process heating and cooling systems. This fluid meets several Food & Drug Administration 21 CFR requirements. Contact our sales personnel for more information.

■ Materials Compatibility

Polymer and Gasket Compatibility:

- Acetal
- Aramid Fiber
- Chemraz (FFKM)
- Epoxy
- Fluorocarbon (FILM)
- Fluoroelastomer
- Glass Fiber
- Gylon
- Kalrez
- Kel-F (CTFE)
- Peek
- PTFE
- Teflon (All)
- PTFE-Silicone
- PTFE-Viton
- PTFE-Fiberglass
- Viton
- Resin-Graphite

Metal Compatibility:

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

■ Benefits of Choosing Dynalene LO-230

- Non-toxic, no odor
- High flash point
- Available worldwide
- Cost-effective
- Total fluid care option
- Proven performance
- Available in both colorless and blue

Recommended Temperature Range:

Open System:

0°C (32°F) to 110°C (230°F)

Closed System:

0°C (32°F) to 205°C (400°F)

■ Properties of Dynalene LO-230

A comprehensive list of all thermo-physical properties of Dynalene LO-230 can be found on page 2. For health and safety information or to request a Safety Data Sheet, contact our Dynalene sales representatives.

Composition:	Aliphatic hydrocarbon blend
Appearance:	Clear
Odor:	None

Freezing Point:	< -40°C (< -40°F)
Boiling Point:	>273°C (>523°F)
Flash Point (Closed):	>120°C (>248°F)
Auto-ignition Temp:	325°C (617°F)

Viscosity*:	13.8 mPa·s (13.8 cP)
Specific Gravity*:	0.802
Specific Heat*:	2.01 kJ/kgK (0.48 BTU/lb°F)
Thermal Conductivity*:	0.147 W/mK (0.085 BTU/fthr°F)

*taken at 20°C (68°F)

■ Quantity & Availability

Dynalene LO-230 is usually purchased in 1, 5 and 55-gallon containers, but bulk tankers are also available. Pricing depends on quantity, and Dynalene, Inc. will work with you to try and fit your budget.

■ Dynalene's Fluid Care Program

Coupling our Dynalene fluids with a fluid care program can extend the life of your systems significantly. We offer yearly testing of the heat transfer fluid in your system and can track changes in the fluid year to year so adjustments can be made to keep your system working at its best.

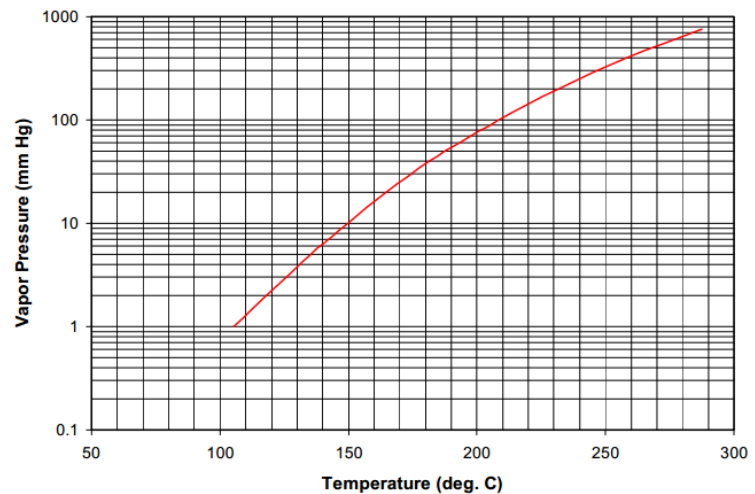
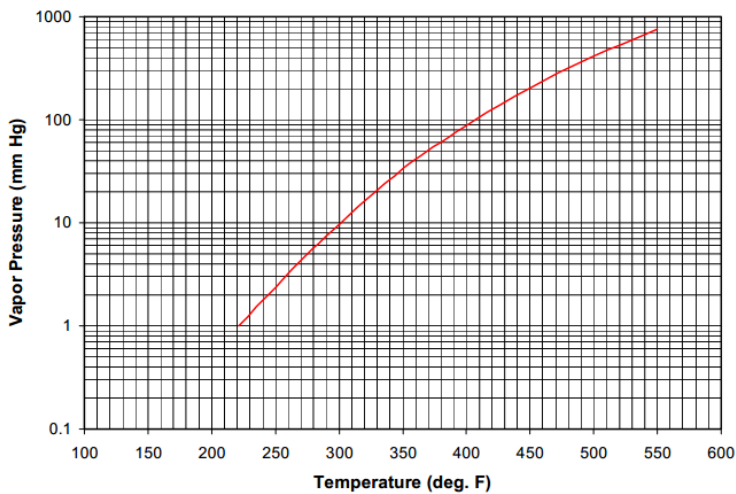
US Units

Temp. °F	Viscosity cP	Thermal Cond. BTU/hr-ft-°F	Specific Heat BTU/lb-°F	Density lb/ft ³
32	34.2	0.0888	0.462	50.8
40	26.9	0.0883	0.466	50.6
60	16.3	0.0870	0.476	50.1
80	10.7	0.0857	0.486	49.6
100	7.10	0.0844	0.496	49.1
120	5.10	0.0831	0.507	48.6
140	3.90	0.0818	0.517	48.2
160	3.00	0.0805	0.527	47.7
180	2.40	0.0792	0.537	47.2
200	2.00	0.0778	0.547	46.7
220	1.70	0.0765	0.557	46.2
240	1.40	0.0752	0.567	45.7
260	1.20	0.0739	0.577	45.3
270	1.10	0.0733	0.582	45.0
280	1.00	0.0726	0.587	44.8
290	0.99	0.0720	0.592	44.5
300	0.93	0.0713	0.597	44.3
320	0.83	0.0700	0.607	43.8
340	0.74	0.0687	0.618	43.3
360	0.66	0.0674	0.628	42.8
380	0.60	0.0661	0.638	42.3
400	0.54	0.0648	0.648	41.9

SI Units

Temp. °C	Viscosity mPa-s	Thermal Cond. W/m-K	Specific Heat kJ/kg-K	Density kg/m ³
0	34.1	0.151	1.934	815
10	20.7	0.149	1.972	808
20	13.8	0.147	2.010	801
30	9.40	0.145	2.048	794
40	6.60	0.143	2.086	787
50	5.00	0.141	2.124	780
60	3.90	0.139	2.162	773
70	3.10	0.137	2.200	766
80	2.50	0.135	2.238	759
90	2.10	0.133	2.276	752
100	1.80	0.131	2.314	745
110	1.50	0.129	2.352	738
120	1.30	0.127	2.390	731
130	1.20	0.125	2.428	724
140	1.00	0.123	2.466	717
150	0.92	0.121	2.504	710
160	0.83	0.119	2.542	703
170	0.75	0.117	2.580	696
180	0.68	0.115	2.618	689
190	0.61	0.113	2.656	682
200	0.56	0.111	2.694	675
205	0.54	0.110	2.713	672

Vapor Pressure



Product Disclaimer

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Contact Information

Corporate Headquarters

Dynalene, Inc.
5250 West Coplay Road
Whitehall, Pennsylvania 18052
Phone: 610-262-9686 / 1-877-244-5525
Fax: 610-262-7437
Email: info@dynalene.com
Website: www.dynalene.com

Midwest Location

248 Beinoris Dr
Wood Dale, IL 60191
Phone: 1-855-216-7639
Email: centralsales@dynalene.com

West Location

1701 S 5350 W
Salt Lake City, UT 84104
Phone: 1-877-244-5525
Email: westsales@dynalene.com