

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

### Process Applications

- Open baths
- Closed loop systems
- Process cooling & heating
- Cryogenic
- Refrigeration systems
- Freeze-drying

### ■ Dynalene LO-230 Overview

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

The Dynalene 'LO' family of fluids, including HF-LO, LO-170, and LO-230, all consistently provide a high-level of user friendly performance to meet every expectation of the customer.

### ■ Benefits of Choosing Dynalene LO-230

- Non-toxic, no odor
- High flash point
- Available throughout North America
- Cost-effective
- Total fluid care
- Proven performance

### ■ 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

### 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 Material Safety Data Sheet, contact our Dynalene sales representatives.

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Composition:	Aliphatic hydrocarbon blend
Appearance:	Clear
Odor:	None

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Freezing Point:	<-40°C (<-40°F)
Boiling Point:	>273°C (>523°F)
Flash Point (Closed):	>110°C (>230°F)

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Viscosity*:	13.8 mPa·s (13.8 cP)
Specific Gravity*:	0.82
Specific Heat*:	2.01 kJ/kgK (0.48 BTU/lb°F)
Thermal Conductivity*:	0.147 W/mK (0.085 BTU/fthr°F)

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*\*taken at 20°C (68°F)*

### ■ Dynalene's Fluid Care Program

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

# US Units

Temperature °F	Viscosity cP	Thermal Cond. BTU/hr-ft-°F	Specific Heat BTU/lb-°F	Density lb/ft <sup>3</sup>
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

Temperature °C	Viscosity mPa·s	Thermal Cond. W/m·K	Specific Heat kJ/kg·K	Density kg/m <sup>3</sup>
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

