

Propylene glycol-based Direct-To-Chip (DTC) coolants

Process Applications

- Data center cooling
- Direct to chip cooling
- Crypto Mining
- Racks and Coolant Distribution Units (CDU)
- High performance computing (HPC)
- Cold plate cooling

■ Dynalene DTC Overview

The Dynalene PG-D coolant series consists of Dynalene PG-D15, PG-D20 and PG-D25, designed to provide direct liquid cooling solutions for data centers, AI and high-performance computing. These DTC coolants are fully formulated, prediluted propylene glycol-water solutions blended with a proprietary inhibitor package.

With the high-performance computing requirements of modern data centers, air cooling cannot provide the required thermal management, which can affect the longevity and performance of the electronic components. Dynalene PG-D coolants provide exceptional liquid cooling along with superior multi-metal corrosion protection, including the copper cold plates used in most coolant distribution units (CDU). Our coolants also provide protection against algae and bacteria growth.

Dynalene PG-D coolants are compatible with commonly used materials of construction in data centers, thereby increasing the electronic component lifetime. These coolants provide freeze protection, increase Power Usage Efficiency (PUE), increase cooling efficiency in direct to chip cooling, and reduce carbon footprint when compared to air cooling.

■ Quantity & Availability

Dynalene PG-D products are offered in 1, 2.5, 5, 30, 55, and 265-gallon containers as well as 5,000-gallon tankers. Pricing depends on quantity, and Dynalene, Inc. will work with you to try to 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.

Recommended Temperature Range:

Closed System:
Up to 80°C (176°F)

■ Properties of Dynalene DTC

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

Composition:	Glycol, Water, Inhibitors, Biocide (optional)	
Appearance:	Clear	
Odor:	None	
Freezing Point:	PG-D15:	-5°C (23°F)
	PG-D20:	-7.2°C (19°F)
	PG-D25:	-10°C (14°F)
pH	8.0 to 10.5	
Boiling Point:	>100°C (>212°F)	
Flash Point:	None	
Autoignition Temp:	None	
Reserve Alkalinity:	≥ 5 mL	

■ Benefits of Choosing Dynalene PG-D

- Enhances data center performance
- Non-toxic
- Non-flammable
- Available worldwide
- Cost-effective
- Total fluid care option
- Fluid and equipment longevity
- Exceptional corrosion protection

General Properties

Dynalene PG-D15

Temp °F	Viscosity cP	Thermal Cond. BTU/hr-ft.°F	Specific Heat BTU/lb.°F	Density lb/ft ³	Vapor Pressure psia
30	3.52	0.280	0.985	63.705	
40	2.85	0.286	0.986	63.610	
50	2.34	0.291	0.986	63.495	
60	1.96	0.296	0.986	63.380	
70	1.67	0.300	0.987	63.250	
80	1.43	0.304	0.987	63.115	
90	1.24	0.308	0.989	62.965	
100	1.09	0.311	0.990	62.720	1.0
120	0.86	0.315	0.992	62.370	1.7
140	0.70	0.323	0.994	61.980	2.9
160	0.58	0.327	0.997	61.550	4.7
180	0.49	0.330	1.000	61.080	7.3

Dynalene PG-D20

Temp °F	Viscosity cP	Thermal Cond. BTU/hr-ft.°F	Specific Heat BTU/lb.°F	Density lb/ft ³	Vapor Pressure psia
20	5.36	0.262	0.936	64.23	
30	4.23	0.267	0.938	64.14	
40	3.41	0.272	0.941	64.03	
50	2.79	0.277	0.944	63.92	
60	2.32	0.281	0.947	63.79	
70	1.95	0.285	0.950	63.66	
80	1.66	0.289	0.953	63.52	
90	1.43	0.292	0.956	63.37	
100	1.25	0.295	0.959	63.20	0.9
120	0.97	0.298	0.965	62.85	1.7
140	0.78	0.306	0.970	62.46	2.8
160	0.64	0.309	0.976	62.03	4.6
180	0.54	0.312	0.982	61.56	7.2

Dynalene PG-D25

Temp °F	Viscosity cP	Thermal Cond. BTU/hr-ft.°F	Specific Heat BTU/lb.°F	Density lb/ft ³	Vapor Pressure psia
20	7.63	0.251	0.919	64.57	
30	5.85	0.255	0.922	64.47	
40	4.58	0.260	0.925	64.35	
50	3.66	0.264	0.929	64.23	
60	2.97	0.268	0.932	64.09	
70	2.45	0.272	0.935	63.95	
80	2.05	0.275	0.939	63.80	
90	1.74	0.278	0.942	63.64	
100	1.49	0.281	0.945	63.47	0.9
120	1.14	0.283	0.952	63.09	1.7
140	0.90	0.290	0.958	62.68	2.8
160	0.73	0.293	0.965	62.23	4.5
180	0.61	0.296	0.972	61.74	7.1

Product Disclaimer

The information contained in this entire publication is presented in good faith at no charge and is believed to be correct as of the date indicated. No representations or warranties are made as to its completeness or accuracy. The information listed is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will the seller be responsible for damages of any nature whatsoever resulting from the use of, or reliance upon, this information or the product to which this information refers. Nothing contained on this page is to be construed as a recommendation to use the product, process, equipment or formulation in conflict with any patent. No representation or warranty, expressed or implied, is made that the use of this product will not infringe any patent.

No representations or warranties, either expressed or implies, of merchantability, fitness for a particular purpose or for any other nature are made with respect to the information, or the product to which the information refers.

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