

# Dynatherm

## Inhibited Ethylene Glycol-Based Heat Transfer Fluid



### Product Features

- Formulated using the highest quality virgin ethylene glycol
- Premium corrosion inhibitor package to protect system metals
- Non-nitrite formulation
- Built for cold climate use. At a solution of 40% by volume, can provide freeze protection to -25°C
- Can withstand extreme temperatures without thermal degradation. At a solution of 40% by volume, can provide boil protection to 105°C

### Description

Dynatherm is a completely formulated ethylene glycol-based coolant that contains a robust, industry-leading inhibitor package. This product is designed to protect against over-heating in summer and circulating system freeze-up in winter.

Dynatherm can either be supplied in concentrated form or as completely formulated, prediluted solution with deionized water. Prediluted forms of Dynatherm are desirable when high quality dilution water is unavailable, or when the convenience and accuracy of a prediluted product is desired.

### Applications include

- HVAC
- Chiller units
- Line heaters
- Radiant heating
- Thermal storage

### Product Properties

Appearance	Clear liquid (Can be dyed upon request)
Specific Gravity (4°C, 40% glycol by volume)	1.06-1.07 kg/L
Thermal Conductivity (4°C, 40% glycol by volume)	0.233-0.239 Btu/(hr)ft <sup>2</sup> (°F/ft)
Specific Heat (4°C, 40% glycol by volume)	0.85-0.87 Btu/(lb)(°F)
Viscosity (4°C, 40% glycol by volume)	4.6 centipose

### Available Packaging

- 20 L Pails
- 1000 L Totes
- 205 L Drums
- Bulk tank trucks

### Typical Freezing and Boiling Points

Dynatherm Vol %	Freezing Point		Boiling Point	
	C	F	C @ 101 kPa	F @ 760 mmHg
0	0	32	100	212
10	-4	25	101.1	214
20	-9	16	102.2	216
30	-16	3	104.4	220
40	-25	-13	105.5	222
50	-37	-35	107.2	225
60	-48	-55	110	230
70	<-51	<-60	116.7	242
80	-45	-49	123.9	255
90	-29	-21	140.6	285
100	-22	8	197.2	387

NOTE: These figures are examples only and may not be appropriate to your situation. Generally, for an extended margin of protection, you should select a temperature in this table that is at least 3°C (5°F) lower than the expected lowest ambient temperature. Inhibitor levels should be adjusted for solutions of less than 30% glycol.



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