

Dynalene GeoGlycol

Renewable Geothermal Heat Transfer Fluid

Dynalene GeoGlycol[®] is specifically designed for your solar and geothermal applications with 30% less viscosity at lower temperatures and better thermal stability at higher temperatures than other glycols. **Dynalene GeoGlycol**[®] is a domestically produced, non-toxic, renewably sourced fluid.

The production of **Dynalene GeoGlycol**[®] emits 40% less green house gases and uses 20% less energy to produce the propylene glycol.

Unlike your typical propylene or ethylene glycol which is made from foreign oil or natural gas, **Dynalene GeoGlycol**[®] is made from sustainable, bio-based raw materials.

Dynalene GeoGlycol[®] completes your sustainable or green application while possessing similar or better physical properties compared to ethylene and propylene glycol fluids.

Dynalene GeoGlycol[®] offers better performance than propylene glycol, while giving it's users an environmentally friendly product than ethylene glycol.

Typical Properties of Dynalene GeoGlycol[®]

Composition: DI Water + **Dynalene BioGlycol**[®]
Appearance and Color: Clear
Odor: Sweet

Property	SI units	US units
Boiling Point:	>100 °C	>212 °F
Melting Point:	-12.0 °C	10 °F
Specific Heat:	3.6375 J/g°C	_____
Thermal Cond.:	0.356 W/m*K	0.206 Btu/hr*ft*f
Refractive Index * :	1.439	_____
Viscosity *:	6.03 mPa*s	6.03 cP

* - at 20° C (68° F)

Recommended Temperature Ranges:
Closed System: -12°C(10°F) to 121°C (250°F)

Ideal for Geothermal Heat Pump

Dynalene GeoGlycol[®] offers a high performance fluid specifically designed for Geothermal systems. **Dynalene GeoGlycol**[®] offers a 30% lower viscosity at lower temperature making it easier to pump than typical glycol mixtures. If you reduce the require energy need to pump the fluid, energy costs also reduce. It also boasts a much longer lifetime than ethylene or propylene glycol and is priced competitively.



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 GeoGlycol

Dynalene GeoGlycol			
Temperature		Thermal Conductivity	
°F	°C	W/m*K	Btu/hr*ft*F
-20	-28.89	0.32524	0.188
-10	-23.33	0.33043	0.191
0	-17.78	0.33562	0.194
10	-12.22	0.33908	0.196
20	-6.67	0.34427	0.199
30	-1.11	0.34773	0.201
40	4.44	0.35292	0.204
50	10.00	0.35638	0.206
60	15.56	0.35984	0.208
70	21.11	0.3633	0.21
80	26.67	0.36503	0.211
90	32.22	0.36849	0.213
100	37.78	0.37022	0.214
110	43.33	0.37195	0.215
120	48.89	0.37541	0.217
130	54.44	0.37714	0.218
140	60.00	0.37714	0.218
150	65.56	0.37887	0.219
160	71.11	0.3806	0.22
170	76.67	0.3806	0.22
180	82.22	0.38233	0.221
190	87.78	0.38233	0.221
200	93.33	0.38233	0.221

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Temperature		Viscosity
°F	°C	cP or mPa*s
-31	-35	66.6
-22	-30	47.5
-13	-25	36.2
-4	-20	28.5
5	-15	22.1
14	-10	17.7
23	-5	14.6
32	0	12.25
41	5	10.125
50	10	8.205
59	15	7.02
68	20	6.03
77	25	5.07
86	30	4.21
95	35	3.59
104	40	3.09
113	45	2.815
122	50	2.515
131	55	2.21
140	60	2.025
149	65	1.82
158	70	1.64
167	75	1.42
176	80	1.31
185	85	1.21
194	90	1.17
203	95	1.08
212	100	1.05