

# Dynalene Solar Glycol-XT

## Inhibited Trimethylene Glycol Heat Transfer Fluid

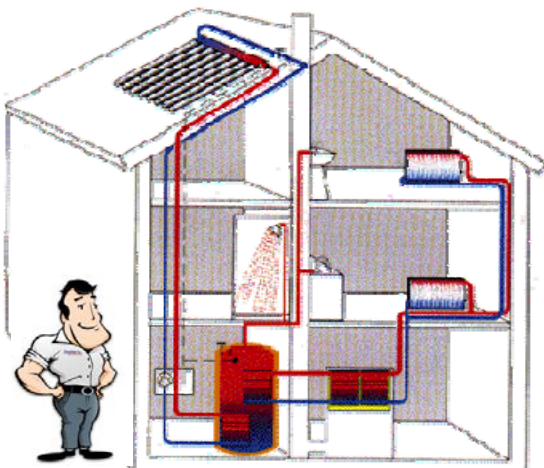
**Dynalene Solar Glycol**<sup>®</sup> is specifically designed for your solar thermal application with 30% less viscosity at lower temperatures and better thermal stability at higher temperatures (up to 350 °F) than other glycols. **Dynalene Solar Glycol**<sup>®</sup> is a domestically produced, non-toxic, renewably sourced fluid.

The production of **Dynalene Solar Glycol**<sup>®</sup> 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 Solar Glycol**<sup>®</sup> is made from sustainable, bio-based raw materials.

**Dynalene Solar Glycol**<sup>®</sup> completes your sustainable or green application while possessing similar or better physical properties compared to ethylene and propylene glycol fluids. **Dynalene Solar Glycol**<sup>®</sup> offers better performance than propylene glycol, while giving it's users an environmentally friendly product than ethylene glycol.

### Ideal for Solar Water Heaters



Typical Properties of Dynalene Solar Glycol <sup>®</sup>		
<b>Composition:</b> DI Water + <b>Dynalene BioGlycol</b> <sup>®</sup>		
<b>Appearance and Color:</b> Clear		
<b>Odor:</b> Sweet		
Property	SI units	US units
Boiling Point:	>100 °C	>218 °F
Melting Point:	-27.0 °C	-16.6 °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: -27 °C(-16.6 °F) to 176°C (350 °F)**

### Dynalene Solar Glycol<sup>®</sup> Benefits

- Lower Viscosity (smaller pump)
- High Temperature
- Longer Life
- Renewable Solution for Renewable Energy Systems
- Packing for 1, 5, 30, and 55 gallons
- Total Fluid Care
- Available Throughout North America
- Proven Performance

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](mailto:info@dynalene.com)

# Dynalene Solar Glycol

Dynalene Solar Glycol			
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

Dynalene Solar Glycol		
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