

# Dynalene SF

## High Temperature Heat Transfer Fluid Information

Dynalene SF<sup>®</sup> offers the process industry a versatile, practically non-toxic heat transfer fluid proven to be cost effective and thermally stable at temperatures up to 315°C (600°F).

Dynalene SF<sup>®</sup>, an alykated aromatic, is known to be particularly stable throughout its wide temperature range and will not compromise your system's integrity.



Typical Properties of Dynalene SF <sup>®</sup>		
<b>Composition:</b> Synthetic Alykated Aromatics		
<b>Appearance and Color:</b> Clear, Light Brown		
<b>Odor:</b> Bland		
Property	SI units	US units
Boiling Point:	>330°C	>626°F
Flash Point:	180°C	356°F
Fire Point:	210°C	410°F
Autoignition Temperature:	330°C	626°F
Max. Film Temperature:	340°C	>644°F
Max. Fluid Outlet Temperature:	315°C	>600°F
Minimum Pumpability Limit:	-10°C	14°F
Pour Point:	-60°C	-76°F
Average Molecular Weight:		300

### Recommended Temperature Ranges:

**Closed System:** 0°C (32°F) to 315°C (600°F)

**Open System:** 20°C (68°F) to 150°C (300°F)

### Prime Applications

- Pharmaceuticals
- Plastics
- Metals
- Flooring/ Roofing
- Energy
- Chemical Manufacturing
- General Process
- Asphalt
- Food
- Rubber
- Textiles
- Paper & Pulp

### Benefits of using Dynalene SF<sup>®</sup>

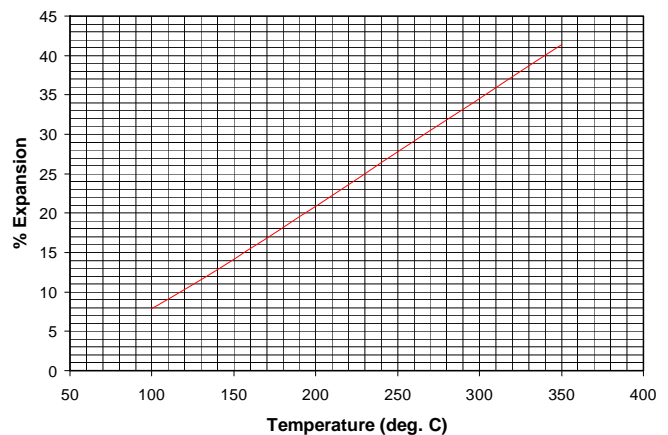
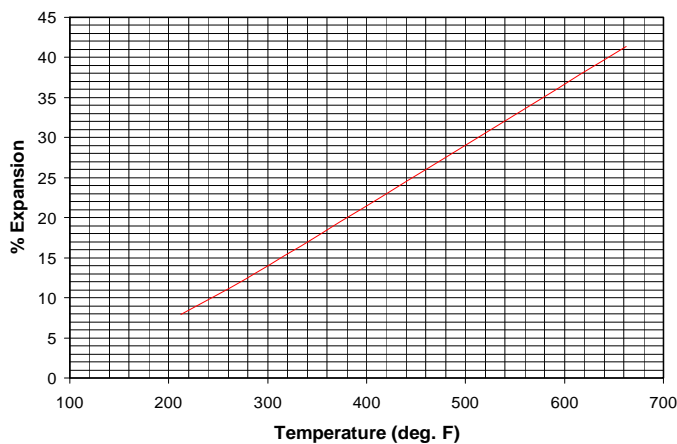
- High thermal stability
- Synthetic
- Safe to use
- Excellent performance
- Wide temperature range
- Economical

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)

Temperature °F	Viscosity cP	Thermal Conductivity Btu/hr•ft•°F	Specific Heat Btu/lb•°F	Density lb/ft <sup>3</sup>
32	160	0.0801	0.453	55.5
40	108	0.0799	0.456	55.3
60	49	0.0794	0.466	54.8
80	27	0.0789	0.476	54.3
100	17	0.0785	0.486	53.9
120	11	0.0780	0.495	53.4
140	8.2	0.0775	0.505	52.9
160	6.2	0.0770	0.515	52.5
180	4.8	0.0765	0.524	52.0
200	3.9	0.0760	0.534	51.6
220	3.2	0.0755	0.544	51.1
240	2.7	0.0750	0.553	50.6
260	2.3	0.0745	0.563	50.2
280	1.9	0.0740	0.573	49.7
300	1.7	0.0735	0.583	49.2
320	1.5	0.0730	0.592	48.8
340	1.3	0.0724	0.602	48.3
360	1.2	0.0719	0.612	47.8
380	1.0	0.0714	0.621	47.4
400	0.93	0.0708	0.631	46.9
420	0.85	0.0703	0.641	46.4
440	0.77	0.0697	0.650	46.0
460	0.70	0.0692	0.660	45.5
480	0.64	0.0686	0.670	45.0
500	0.59	0.0681	0.680	44.6
520	0.55	0.0675	0.689	44.1
540	0.51	0.0669	0.699	43.6
560	0.47	0.0664	0.709	43.2
580	0.44	0.0658	0.718	42.7
600	0.41	0.0652	0.728	42.2

Temperature °C	Viscosity mPa•s	Thermal Conductivity W/m•K	Specific Heat kJ/kg•K	Density kg/m <sup>3</sup>
0	160	0.1361	1.894	890
10	70	0.1354	1.930	884
20	37	0.1347	1.967	877
30	23	0.1340	2.003	870
40	15	0.1332	2.040	863
50	11	0.1325	2.076	857
60	8.1	0.1318	2.113	850
70	6.3	0.1310	2.150	843
80	5.0	0.1303	2.186	836
90	4.1	0.1295	2.223	830
100	3.4	0.1287	2.259	823
110	2.9	0.1280	2.296	816
120	2.4	0.1272	2.332	810
130	2.2	0.1264	2.369	803
140	1.9	0.1256	2.405	796
150	1.7	0.1248	2.442	789
160	1.5	0.1240	2.478	783
170	1.3	0.1232	2.515	776
180	1.2	0.1224	2.552	769
190	1.1	0.1216	2.588	763
200	1	0.1208	2.625	756
210	0.88	0.1200	2.661	749
220	0.81	0.1191	2.698	742
230	0.75	0.1183	2.734	736
240	0.69	0.1174	2.771	729
250	0.64	0.1166	2.807	722
260	0.59	0.1157	2.844	715
270	0.55	0.1149	2.880	709
280	0.51	0.1140	2.917	702
290	0.48	0.1131	2.954	695
300	0.45	0.1123	2.990	689
310	0.42	0.1114	3.027	682
315	0.41	0.1109	3.045	678

## Volumetric Expansion of Dynalene SF



For further information, contact a Dynalene sales representative.

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