



# HEAT TRANSFER FLUIDS

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## XCEL THERM<sup>®</sup> 315 – Engineering Properties

Economical synthetic oil rated to 550°F (288°C) with very high resistance to oxidation as well as high resistance to sludge and fouling.

Temperature		Viscosity		Density		Specific Heat		Thermal Conductivity		Vapor Pressure	
°F	°C	cSt	cP	lb/ft <sup>3</sup>	Kg/m <sup>3</sup>	BTU/lb-°F	J/g-K	BTU/ft-hr-°F	W/m-K	psia	Kg/cm <sup>2</sup>
-20	-29	2100.000	1901.079	56.5	905.1	0.414	1.73	0.0775	0.134	-	-
0	-18	683.000	613.390	56.0	897.1	0.423	1.77	0.077	0.133	-	-
20	-7	265.000	235.767	55.5	889.1	0.433	1.81	0.076	0.132	-	-
40	4	119.500	105.458	55.1	882.7	0.442	1.85	0.075	0.130	-	-
60	16	60.700	53.094	54.6	874.7	0.453	1.90	0.075	0.129	-	-
80	27	34.100	29.566	54.1	866.7	0.461	1.93	0.074	0.128	-	-
100	38	20.800	17.875	53.7	860.3	0.471	1.97	0.073	0.127	-	-
120	49	13.570	11.557	53.2	852.3	0.481	2.01	0.072	0.125	-	-
140	60	9.390	7.925	52.7	844.3	0.490	2.05	0.072	0.124	-	-
160	71	6.820	5.704	52.3	837.8	0.500	2.09	0.071	0.123	-	-
180	82	5.150	4.268	51.8	829.8	0.509	2.13	0.070	0.121	0.002	0.0001
200	93	4.030	3.309	51.3	821.8	0.519	2.17	0.069	0.120	0.003	0.0002
220	104	3.240	2.635	50.9	815.4	0.528	2.21	0.069	0.119	0.006	0.0004
240	116	2.670	2.151	50.4	807.4	0.538	2.25	0.068	0.118	0.010	0.0007
260	127	2.250	1.795	49.9	799.4	0.547	2.29	0.067	0.116	0.017	0.0012
280	138	1.924	1.521	49.4	791.4	0.557	2.33	0.066	0.115	0.029	0.0020
300	149	1.672	1.309	49.0	785.0	0.566	2.37	0.066	0.114	0.046	0.0032
320	160	1.471	1.140	48.5	777.0	0.576	2.41	0.065	0.112	0.073	0.0051
340	171	1.307	1.003	48.0	769.0	0.585	2.45	0.064	0.111	0.112	0.0079
360	182	1.173	0.891	47.5	761.0	0.595	2.49	0.063	0.110	0.168	0.0118
380	193	1.060	0.797	47.0	752.9	0.605	2.53	0.063	0.109	0.248	0.0174
400	204	0.964	0.717	46.5	744.9	0.614	2.57	0.062	0.107	0.360	0.0253
420	216	0.882	0.650	46.0	736.9	0.624	2.61	0.061	0.106	0.515	0.0362
440	227	0.810	0.590	45.5	728.9	0.633	2.65	0.060	0.105	0.724	0.0509
460	238	0.747	0.539	43.9	703.3	0.643	2.69	0.060	0.103	1.000	0.0703
480	249	0.691	0.493	43.4	695.3	0.652	2.73	0.059	0.102	1.370	0.0963
500	260	0.641	0.452	42.8	685.7	0.662	2.77	0.058	0.101	1.850	0.1301
520	271	0.596	0.416	43.4	695.3	0.671	2.81	0.058	0.100	2.470	0.1737
540	282	0.555	0.383	42.8	685.7	0.681	2.85	0.057	0.098	3.270	0.2299
560	293	0.518	0.354	42.3	677.6	0.690	2.89	0.056	0.097	4.270	0.3002

Data Represents typical laboratory samples and are not guaranteed for all samples