



HEAT TRANSFER FLUIDS

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XCELTHERM HFF – Engineering Properties

High flash point of greater than 410°F (210°C) as measured by Pensky-Martens Closed Cup method (ASTM D93), petroleum based, non-toxic for use up to 600°F (315°C).

Temperature		Viscosity		Density		Specific Heat		Thermal Conductivity		Vapor Pressure	
°F	°C	mm ² /s	cP	lb/ft ³	Kg/m ³	BTU/lb-°F	J/g-K	BTU/hr-F-ft	W/m-K	psia	Kg/cm ²
60	15.6	141	120.52	53.19	852.02	0.4296	1.7979	0.0821	0.1421	–	–
80	26.7	75.0	63.441	52.80	845.88	0.4376	1.8314	0.0817	0.1414	–	–
100	37.8	41.9	35.224	52.42	839.73	0.4456	1.8649	0.0813	0.1407	–	–
120	48.9	22.9	19.119	52.03	833.58	0.4536	1.8984	0.0809	0.1400	–	–
140	60.0	16.4	13.570	51.65	827.44	0.4616	1.9319	0.0805	0.1393	0.0001	–
160	71.1	11.9	9.772	51.27	821.29	0.4696	1.9653	0.0801	0.1386	0.0001	–
180	82.2	8.61	7.022	50.88	815.14	0.4776	1.9988	0.0797	0.1379	0.0002	–
200	93.3	6.61	5.351	50.50	809.00	0.4856	2.0323	0.0793	0.1372	0.0003	–
220	104.4	5.01	4.026	50.12	802.85	0.4936	2.0658	0.0789	0.1366	0.0005	–
240	115.6	4.10	3.266	49.73	796.70	0.5016	2.0993	0.0785	0.1359	0.0008	–
260	126.7	3.45	2.727	49.35	790.56	0.5096	2.1328	0.0781	0.1352	0.0013	–
280	137.8	2.85	2.236	48.96	784.41	0.5176	2.1662	0.0777	0.1345	0.0021	0.0001
300	148.9	2.41	1.876	48.58	778.26	0.5256	2.1997	0.0773	0.1338	0.0034	0.0002
320	160.0	2.10	1.621	48.20	772.12	0.5336	2.2332	0.0769	0.1331	0.0056	0.0004
340	171.1	1.83	1.402	47.81	765.97	0.5416	2.2667	0.0765	0.1324	0.0091	0.0006
360	182.2	1.60	1.216	47.43	759.82	0.5496	2.3002	0.0761	0.1317	0.0149	0.0010
370	187.8	1.50	1.135	47.24	756.75	0.5536	2.3169	0.0759	0.1314	0.0190	0.0013
380	193.3	1.42	1.070	47.05	753.68	0.5576	2.3336	0.0757	0.1310	0.0243	0.0017
400	204.4	1.30	0.972	46.66	747.53	0.5656	2.3671	0.0753	0.1303	0.0395	0.0028
420	215.6	1.17	0.867	46.28	741.38	0.5736	2.4006	0.0749	0.1296	0.0644	0.0045
440	226.7	1.05	0.772	45.90	735.24	0.5816	2.4341	0.0745	0.1289	0.1048	0.0074
460	237.8	0.960	0.700	45.51	729.09	0.5896	2.4676	0.0741	0.1282	0.1707	0.0120
480	248.9	0.900	0.651	45.13	722.94	0.5976	2.5010	0.0737	0.1276	0.2781	0.0196
500	260.0	0.835	0.599	44.74	716.80	0.6056	2.5345	0.0733	0.1269	0.4529	0.0318
510	265.6	0.790	0.564	44.55	713.72	0.6096	2.5513	0.0731	0.1265	0.5780	0.0406
520	271.1	0.759	0.539	44.36	710.65	0.6136	2.5680	0.0729	0.1262	0.7376	0.0519
530	276.7	0.735	0.520	44.17	707.58	0.6176	2.5847	0.0727	0.1258	0.9414	0.0662
540	282.2	0.710	0.500	43.98	704.50	0.6216	2.6015	0.0725	0.1255	1.2014	0.0845
560	293.3	0.670	0.468	43.59	698.36	0.6296	2.6350	0.0721	0.1248	1.9567	0.1376
580	304.4	0.630	0.436	43.21	692.21	0.6376	2.6685	0.0717	0.1241	3.1869	0.2241
600	315.5	0.590	0.405	42.83	686.06	0.6456	2.7019	0.0713	0.1234	5.1904	0.3649