



HEAT TRANSFER FLUIDS

700 Kingsland Drive
Batavia, IL 60510

USA

Phone: (630) 232-7966

Fax: (630) 232-7968

www.Radcoind.com

XCEL THERM® SX500

XCEL THERM® SX500 is a polydimethylsiloxane-based fluid for laboratory/testing bath applications. XCEL THERM® SX500 can be used in open bath operating temperatures from ambient to 170°C (338°F), with outstanding oxidative stability properties. In closed systems, XCEL THERM® SX500 can be operated at temperatures from -40°C to 230°C (-40°F to 446°F), with excellent inherent thermal stability, assuring extended fluid life and optimal heat transfer efficiency.

Temperature		Viscosity		Density		Specific Heat		Thermal Conductivity		Vapor Pressure	
°C	°F	cP	mm ² /s (cSt)	kg/m ³	lbs/ft ³	J/g-K	BTU/lb-°F	W/m-K	BTU/ft-hr-°F	kg/cm ²	psia
-60	-76	690	659	1061	66.25	1.368	0.3267	0.1535	0.0887		
-50	-58	443	426	1049	65.51	1.387	0.3312	0.1532	0.0885		
-40	-40	298	289	1037	64.76	1.406	0.3358	0.1529	0.0883		
-30	-22	208	204	1025	64.01	1.425	0.3403	0.1526	0.0882		
-20	-4	150	149	1013	63.26	1.444	0.3449	0.1523	0.0880		
-10	14	112	112	1001	62.51	1.463	0.3494	0.1520	0.0878		
0	32	85.3	86.0	989.3	61.76	1.482	0.3539	0.1517	0.0877		
10	50	66.4	67.8	977.3	61.01	1.501	0.3585	0.1514	0.0875	0.0000	0.0000
20	68	52.7	54.5	965.3	60.26	1.520	0.3630	0.1511	0.0873	0.0063	0.0896
30	86	42.6	44.5	953.3	59.51	1.539	0.3675	0.1508	0.0871	0.0074	0.1048
40	104	34.9	37.0	941.3	58.76	1.558	0.3721	0.1505	0.0870	0.0086	0.1226
50	122	28.9	31.2	929.3	58.01	1.577	0.3766	0.1502	0.0868	0.0101	0.1434
60	140	24.3	26.6	917.3	57.27	1.596	0.3811	0.1499	0.0866	0.0118	0.1678
70	158	20.6	22.9	905.3	56.52	1.615	0.3857	0.1496	0.0864	0.0138	0.1964
80	176	17.6	19.9	893.3	55.77	1.634	0.3902	0.1493	0.0863	0.0162	0.2297
90	194	15.2	17.5	881.3	55.02	1.653	0.3948	0.1490	0.0861	0.0189	0.2688
100	212	13.2	15.5	869.3	54.27	1.672	0.3993	0.1487	0.0859	0.0221	0.3145
110	230	11.6	13.8	857.3	53.52	1.691	0.4038	0.1484	0.0857	0.0259	0.3679
120	248	10.2	12.4	845.3	52.77	1.710	0.4084	0.1481	0.0856	0.0303	0.4305
130	266	9.00	11.2	833.3	52.02	1.729	0.4129	0.1478	0.0854	0.0354	0.5037
140	284	8.01	10.2	821.3	51.27	1.748	0.4174	0.1475	0.0852	0.0414	0.5893
150	302	7.15	9.31	809.3	50.52	1.767	0.4220	0.1472	0.0851	0.0485	0.6895
160	320	6.41	8.54	797.3	49.77	1.786	0.4265	0.1469	0.0849	0.0567	0.8067
170	338	5.77	7.87	785.3	49.02	1.805	0.4311	0.1466	0.0847	0.0664	0.9438
180	356	5.21	7.28	773.3	48.28	1.824	0.4356	0.1463	0.0845	0.0776	1.1043
190	374	4.72	6.76	761.3	47.53	1.843	0.4401	0.1460	0.0844	0.0908	1.2920
200	392	4.28	6.30	749.3	46.78	1.862	0.4447	0.1457	0.0842	0.1063	1.5116
210	410	3.90	5.89	737.3	46.03	1.881	0.4492	0.1454	0.0840	0.1243	1.7686
220	428	3.56	5.52	725.3	45.28	1.900	0.4537	0.1451	0.0838	0.1455	2.0692
230	446	3.25	5.19	713.3	44.53	1.919	0.4583	0.1448	0.0837	0.1702	2.4210
240	464	2.98	4.89	701.3	43.78	1.938	0.4628	0.1445	0.0835	0.1991	2.8326
250	482	2.73	4.62	689.3	43.03	1.957	0.4674	0.1442	0.0833	0.2330	3.3141
260	500	2.51	4.38	677.3	42.28	1.976	0.4719	0.1439	0.0831	0.2726	3.8775

Data represents typical laboratory samples and are not guaranteed for all samples.

XCEL THERM® is a registered trademark of Radco Industries, Inc.