VISCOSITY CONVERSION TABLE

Seconds Saybolt Universal SSU	Kinematic Viscosity Centistokes *	Seconds Saybolt Furrol SSF	Seconds Redwood 1 (Standard)	Seconds Redwood 2 (Admiralty)	Degrees Engler	Degrees Barbey	Seconds Parlin Cup = 7	Seconds Parlin Cup = 10	Seconds Parlin Cup = 15	Seconds Parlin Cup = 20	Seconds Ford Cup = 3	Seconds Ford Cup = 4	Approx. Seconds Mac Michael	Approx. Gardner Holt Bubble	Seconds Zohn Cup = 1	Seconds Zohn Cup = 2	Seconds Zohn Cup = 3	Seconds Zohn Cup = 4	Seconds Zohn Cup = 5	Seconds Demmler Cup = 1	Seconds Demmler Cup = 10	Approx. Seconds Stormer 100 gm Load	Seconds Pratt and Lambert "F"
31	1.00	–	29	–	1.00	6200	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
35	2.56	–	32.1	–	1.16	2420	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
40	4.30	–	36.2	5.10	1.31	1440	–	–	–	–	–	–	–	–	–	–	–	–	–	1.3	–	–	–
50	7.40	–	44.3	5.83	1.58	838	–	–	–	–	–	–	–	–	–	–	–	–	–	2.3	–	2.6	–
60	10.3	–	52.3	6.77	1.88	618	–	–	–	–	–	–	–	–	–	–	–	–	–	3.2	–	3.6	–
70	13.1	12.95	60.9	7.60	2.17	483	–	–	–	–	–	–	–	–	–	–	–	–	–	4.1	–	4.6	–
80	15.7	13.70	69.2	8.44	2.45	404	–	–	–	–	–	–	–	–	–	–	–	–	–	4.9	–	5.5	–
90	18.2	14.44	77.6	9.30	2.73	348	–	–	–	–	–	–	–	–	–	–	–	–	–	5.7	–	6.4	–
100	20.6	15.24	85.6	10.12	3.02	307	–	–	–	–	–	–	125	–	38	18	–	–	–	6.5	–	7.3	–
150	32.1	19.30	128	14.48	4.48	195	–	–	–	–	–	–	145	–	47	20	–	–	–	10.0	1.0	11.3	–
200	43.2	23.5	170	18.90	5.92	144	40	–	–	–	–	–	165	A	54	23	–	–	–	13.5	1.4	15.2	–
250	54.0	28.0	212	23.45	7.35	114	48	–	–	–	–	–	198	A	62	26	–	–	–	16.9	1.7	19	–
300	65.0	32.5	254	28.0	8.79	95	52.5	15	6.0	3.0	30	20	225	B	73	29	–	–	–	20.4	2.0	23	–
400	87.60	41.9	338	37.1	11.70	70.8	66	21	7.2	3.2	42	28	270	C	90	37	–	–	–	27.4	2.7	31	7
500	110.0	51.6	423	46.2	14.60	56.4	79	25	7.8	3.4	50	34	320	D	–	46	–	–	–	34.5	3.5	39	8
600	132	61.4	508	55.4	17.50	47.0	92	30	8.5	3.6	58	40	370	F	–	55	–	–	–	41	4.1	46	9
700	154	71.1	592	65.6	20.45	40.3	106	35	9.0	3.9	67	45	420	G	–	63	22.5	–	–	48	4.8	54	9.5
800	176	81.0	677	73.8	23.35	35.2	120	39	9.8	4.1	74	50	470	–	–	72	24.5	–	–	55	5.5	62	10.8
900	198	91.0	762	83.0	26.30	31.3	135	41	10.7	4.3	82	57	515	H	–	80	27	18	–	62	6.2	70	11.9
1000	220	100.7	896	92.1	29.20	28.2	149	43	11.5	4.5	90	62	570	I	–	88	29	20	13	69	6.9	77	12.4
1500	330	150	1270	138.2	43.80	18.7	–	65	15.2	6.3	132	90	805	M	–	–	40	28	18	103	10.3	116	16.8
2000	440	200	1690	184.2	58.40	14.1	–	86	19.5	7.5	172	118	1070	Q	–	–	51	34	24	137	13.7	154	22
2500	550	250	2120	230	73.0	11.3	–	108	24	9	218	147	1325	T	–	–	63	41	29	172	17.2	193	27.6
3000	660	300	2540	276	87.60	9.4	–	129	28.5	11	258	172	1690	U	–	–	75	48	33	206	20.6	232	33.7
4000	880	400	3380	368	117.0	7.05	–	172	37	14	337	230	2110	V	–	–	–	63	43	275	27.5	308	45
5000	1100	500	4230	461	146	5.64	–	215	47	18	425	290	2635	W	–	–	–	77	50	344	34.4	385	55.8
6000	1320	600	5080	553	175	4.70	–	258	57	22	520	350	3145	X	–	–	–	–	65	413	41.3	462	65.5
7000	1540	700	5920	645	204.5	4.03	–	300	67	25	600	410	3670	–	–	–	–	–	75	481	48	540	77
8000	1760	800	6770	737	233.5	3.52	–	344	76	29	680	465	4170	Y	–	–	–	–	86	550	55	618	89
9000	1980	900	7620	829	263	3.13	–	387	86	32	780	520	4700	–	–	–	–	–	96	620	62	695	102
10000	2200	1000	8460	921	292	2.82	–	430	96	35	850	575	5220	Z	–	–	–	–	–	690	69	770	113
15000	3300	1500	13700	–	438	2.50	–	650	147	53	1280	860	7720	Z2	–	–	–	–	–	1030	103	1160	172
20000	4400	2000	18400	–	584	1.40	–	860	203	70	1715	1150	10500	Z3	–	–	–	–	–	1370	137	1540	234

$$* \text{ Kinematic Viscosity (in centistokes)} = \frac{\text{Absolute viscosity (in centipoises)}}{\text{Density}}$$

Above 250 SSUm use the following approximate conversion:

SSU = Centistokes x 4.62

Above the range of this table and within the range of the viscosimeter, multiply their rating by the following factors to convert to SSU:

Viscosimeter	Factor
Saybolt Furol	10
Redwood Standard	1.095
Redwood Admiralty	10.87
Engler - Degrees	34.5

Viscosimeter	Factor
Parlin cup = 15	98.2
Parlin cup = 20	187.0
Ford cup = 4	17.4

Viscosimeter	Factor
Mac Michael	1.92 (approx.)
Demmler = 1	14.6
Demmler = 10	146.0
Stormer	13.0 (approx.)