

# Viscosity Converting Chart

A converting table between viscosity units like *Centipoises*, *milliPascal*, *CentiStokes* and *SSU*

The viscosity of a fluid is its resistance to shear or flow, and is a measure of the fluids adhesive/cohesive or frictional properties. This arises because of the internal molecular friction within the fluid producing the frictional drag effect. There are two related measures of fluid viscosity which are known as dynamic and kinematic viscosity.

**Dynamic viscosity** is also termed "**absolute viscosity**" and is the tangential force per unit area required to move one horizontal plane with respect to the other at unit velocity when maintained a unit distance apart by the fluid.

Centipoise (CPS) Millipascal (mPas)	Poise (P)	Centistokes (cSt)	Stokes (S)	Saybolt Seconds Universal (SSU)
1	0.01	1	0.01	31
2	0.02	2	0.02	34
4	0.04	4	0.04	38
7	0.07	7	0.07	47
10	0.1	10	0.1	60
15	0.15	15	0.15	80
20	0.2	20	0.2	100
25	0.24	25	0.24	130
30	0.3	30	0.3	160
40	0.4	40	0.4	210
50	0.5	50	0.5	260
60	0.6	60	0.6	320
70	0.7	70	0.7	370
80	0.8	80	0.8	430
90	0.9	90	0.9	480
100	1	100	1	530
120	1.2	120	1.2	580
140	1.4	140	1.4	690
160	1.6	160	1.6	790
180	1.8	180	1.8	900
200	2	200	2	1000
220	2.2	220	2.2	1100
240	2.4	240	2.4	1200
260	2.6	260	2.6	1280
280	2.8	280	2.8	1380
300	3	300	3	1475
320	3.2	320	3.2	1530
340	3.4	340	3.4	1630
360	3.6	360	3.6	1730

380	3.8	380	3.8	1850
400	4	400	4	1950
420	4.2	420	4.2	2050
440	4.4	440	4.4	2160
460	4.6	460	4.6	2270
480	4.8	480	4.8	2380
500	5	500	5	2480
550	5.5	550	5.5	2660
600	6	600	6	2900
700	7	700	7	3380
800	8	800	8	3880
900	9	900	9	4300
1000	10	1000	10	4600
1100	11	1100	11	5200
1200	12	1200	12	5620
1300	13	1300	13	6100
1400	14	1400	14	6480
1500	15	1500	15	7000
1600	16	1600	16	7500
1700	17	1700	17	8000
1800	18	1800	18	8500
1900	19	1900	19	9000
2000	20	2000	20	9400
2100	21	2100	21	9850
2200	22	2200	22	10300
2300	23	2300	23	10750
2400	24	2400	24	11200
2500	25	2500	25	11600
3000	30	3000	30	14500
3500	35	3500	35	16500
4000	40	4000	40	18500
4500	45	4500	45	21000
5000	50	5000	50	23500
5500	55	5500	55	26000
6000	60	6000	60	28000
6500	65	6500	65	30000
7000	70	7000	70	32500
7500	75	7500	75	35000
8000	80	8000	80	37000
8500	85	8500	85	39500
9000	90	9000	90	41080
9500	95	9500	95	43000
15000	150	15000	150	69400
20000	200	20000	200	92500

30000	300	30000	300	138500
40000	400	40000	400	185000
50000	500	50000	500	231000
60000	600	60000	600	277500
70000	700	70000	700	323500
80000	800	80000	800	370000
90000	900	90000	900	415500
100000	1000	100000	1000	462000
125000	1250	125000	1250	578000
150000	1500	150000	1500	694000
175000	1750	175000	1750	810000
200000	2000	200000	2000	925000

source:

[http://www.engineeringtoolbox.com/viscosity-converter-d\\_413.html](http://www.engineeringtoolbox.com/viscosity-converter-d_413.html)

October 5th, 2009