

Equivalents of Kinematic and Saybolt Universal Viscosity

Kinematic Viscosity, Centistokes ν	Equivalent Saybolt Universal Viscosity, Sec	
	At 100°F Basic Values	At 210°F
1.83	32.01	32.23
2.0	32.62	32.85
4.0	39.14	39.41
6.0	45.56	45.88
8.0	52.09	52.45
10.0	58.91	59.32
15.0	77.39	77.93
20.0	97.77	98.45
25.0	119.3	120.1
30.0	141.3	142.3
35.0	163.7	164.9
40.0	186.3	187.6
45.0	209.1	210.5
50.0	232.1	233.8
55.0	255.2	257.0
60.0	278.3	280.2
65.0	301.4	303.5
70.0	324.4	326.7
75.0	347.6	350.0
80.0	370.8	373.4
85.0	393.9	396.7
90.0	417.1	420.0
95.0	440.3	443.4

100.0	463.5	466.7
120.0	556.2	560.1
140.0	648.9	653.4
160.0	741.6	
180.0	834.2	
200.0	926.9	
220.0	1019.6	
240.0	1112.3	
260.0	1205.0	
280.0	1297.7	
300.0	1390.4	
320.0	1483.1	
340.0	1575.8	
360.0	1668.5	Saybolt Seconds equal Centistokes times 4.6673
380.0	1761.2	
400.0	1853.9	
420.0	1946.6	
440.0	2039.3	
460.0	2132.0	
480.0	2224.7	
500.0	2317.4	
Over 500	Saybolt Seconds equal Centistokes times 4.6347	

To obtain the Saybolt Universal Viscosity equivalent to a kinematic viscosity determined at t , multiply the equivalent Saybolt Universal Viscosity at 100°F by $1 = (t - 100) 0.000064$.

Example: 10v at 210°F are equivalent to 58.91 multiplied by 1.0070 or 59.32 sec Saybolt Universal at 210°F.