

Viscosity Conversion Table

Effects of Viscosity - Viscous liquids tend to increase pump HP, reduce efficiency, reduce capacity and head and increase pipe friction.

Saybolt Universal SSU	Stokes	Centi Stokes	Poises*	Centi* Poises	Engler Seconds	Redwood No. 1 Seconds	Typical Liquids at 70°F
31	.010	1.00	.008	.8	54	29	Water
35	.025	2.56	.020	2.05	59	32.1	Kerosene
50	.074	7.40	.059	5.92	80	44.3	No. 2 Fuel Oil
80	.157	15.7	.126	12.6	125	69.2	No. 4 Fuel Oil
100	.202	20.2	.162	16.2	150	85.6	Transformer Oil
200	.432	43.2	.346	34.6	295	170	Hydraulic Oil
300	.654	65.4	.522	52.2	470	254	SAE 10W Oil
500	1.10	110	.88	88.0	760	423	SAE 10 Oil
1,000	2.16	220	1.73	173	1,500	696	SAE 20 Oil
2,000	4.40	440	3.52	352	3,000	1,690	SAE 30 Oil
5,000	10.8	1,080	8.80	880	7,500	4,230	SAE 50 Oil
10,000	21.6	2,160	17.0	1,760	15,000	8,460	SAE 60-70 Oil
50,000	108	10,800	88	8,800	75,000	43,660	Molasses B
100,000	216	21,600	173	17,300	150,000	88,160	Molasses C

**Poises and centipoises are given for oil of .8 spec. gravity. Relationship: centistokes x specific gravity = centipoises*