

Numerical Relationships Among Viscosity Classification Systems

ISO Vis Grade	cSt @ 40°C	SSU @ 100°F (assume 95 VI)	ASTM/BSI Grade	SSU @ 100°F	SAE Crankcase Oils	SSU @ 100°F (assume 110 VI)	AGMA Industrial Gear Oils	SSU @ 100°F	SAE Gear Oils	SSU @ 100°F (assume 90 VI)
2	1.98-2.42	32.8-34.4	32	33-34						
3	2.88-3.52	36.0-38.2	36	36-38						
5	4.14-5.06	40.4-43.5	40	40-43						
7	6.12-7.48	47.2-52.0	50*	46-50	5W	140 Max.				
			60	55-62						
10	9.00-11.0	57.6-65.3								
			75	72-83						
15	13.5-16.5	75.8-89.1								
			105	97-116					75W	102 min
22	19.8-24.2	105-126								
			150	136-165	10W	140-202				
32	28.8-35.2	149-182								
			215	193-235	20	168-366	1	193-235		
46	41.4-50.6	214-262							80W	251 min
			315	284-347	20W	202-500	2,2EP	284-347		
68	61.2-74.8	317-389								
			465	417-510	30	366-560	3,3EP	417-510	85W	531 min
100	90.0-110	468-575								
			700	625-764	40	560-812	4,4EP	626-765		
150	135-165	709-871							90	747-1844
			1000	917-1121	50	812-1272	5,5EP	916-1122		
220	198-242	1047-1283								
			1500	1334-1631	60**	1272-1561	6.6EP	1335-1632		
320	288-352	1533-1881								
			2150	1918-2344	70**	1561-2085	7EP, 7 Comp.	1919-2346	140	1844-4378
460	414-506	2214-2719								
			3150	2835-3465			8EP, 8 Comp.	2837-3467		
680	612-748	3298-4048								
			4650	4169-5095			8A Comp.	4171-5089	250	4378 min
1000	900-1100	4854-5975								
			7000	6253-7643						
1500	1350-1650	7365-9080								

*Currently is not considered a standardized grade in the USA.

**Not part of SAE classification.

For Estimating Purposes Only