

# Comparisons/Warranties

## Comparison of Viscosity Classification Systems

- Viscosities can be related horizontally only.
- Viscosities based on 95 VI single-grade oils.
- ASTM & AGMA specified at 104°F (40°C).
- SAE 5W and 10W and 75W, 80W and 85W specified at 0°F.
- Equivalent viscosities for 104°F and 212°F shown.
- SAE 20 to 50 and 90 to 250 specified at 212°F.
- ISO grades specified at 40°C (104°F).

SUS @ 104°F (40°C)	CST @ 104°F (40°C)	SAE grade motor oils	SAE grade gear oils	(Old System) ASTM visc. grades industrial lubricants	(New System) ISO grades	AGMA grades	SUS @ 212°F (100°C)	CST @ 212°F (100°C)
10,000	3,000			7,000	1,500		330	70
8,000	2,000			4,650	1,000	8A	300	60
6,000	1,500		250	3,150	680	8	250	50
5,000	1,000		140	2,150	460	7	200	40
4,000	800		90	1,500	320	6	160	30
3,000	700	50		1,000	220	5	140	25
2,000	500	40		700	150	4	120	20
1,500	400	30	85W	465	100	3	100	15
1,000	300	20	80W	315	68	2	90	12
800	200	20W		215	46	1	80	10
700	150	10W	75W	150	32		70	8
600	100	5W		105	22		60	6
500	80			75	15		55	5
400	60			60	10		50	4
300	40			40	7		45	3
200	30			32			40	2
150	20						37	
100	10							
80	8							
60	6							
50	4							
40								

## Grease NLGI Number and Corresponding ASTM Worked Penetration Range

NLGI	Worked Penetration Range
000	445 to 475
00	400 to 430
0	355 to 385
1	310 to 340
2	265 to 295
3	220 to 250
4	175 to 205
5	130 to 160
6	85 to 115

## PRODUCT WARRANTY

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