1. ISO

(1) ISO (KS M 2113)

ISO	cSt(mm ² /s, 40 °C)	cSt(mm ² /s, 40 °C)	
ISO VG 2	2.2	1.98	2.42
ISO VG 3	3.2	2.88	3.52
ISO VG 5	4.6	4.14	5.06
ISO VG 7	6.8	6.12	7.48
ISO VG 10	10	9.00	11.0
ISO VG 15	15	13.5	16.5
ISO VG 22	22	19.8	24.2
ISO VG 32	32	28.8	35.2
ISO VG 46	46	41.4	50.6
ISO VG 68	68	61.2	74.8
ISO VG 100	100	90.0	110
ISO VG 150	150	135	165
ISO VG 220	220	198	242
ISO VG 320	320	288	352
ISO VG 460	460	414	506
ISO VG 680	680	612	748
ISO VG 1000	1000	900	1100
ISO VG 1500	1500	1350	1650

(2)

	cSt (mm ² /s, 40 °C)	cSt(mm ² /s, 40 °C)	
VG 2L	1.5	1.00	1.98
VG 2H	2.6	2.42	2.88
VG 4	3.8	3.52	4.14

	cSt (mm ² /s, 40)	cSt(mm ² /s, 40)	
VG 6	5.6	5.06	6.12
VG 8	8.3	7.48	9.00
VG 12	12	11.0	13.5
VG 18	18	16.5	19.8
VG 26	26	24.2	28.8
VG 38	38	35.2	41.4
VG 56	56	50.6	61.2
VG 83	83	74.8	90.0
VG 120	120	110	135
VG 180	180	165	198
VG 260	260	242	288
VG 380	380	352	414
VG 560	560	506	612
VG 830	830	748	900
VG 1200	1200	1100	1350
VG 1800	1800	1650	1980
VG 2200	2200	1980	2420
VG 2600	2600	2420	2880
VG 3200	3200	2880	3520
VG 3800	3800	3520	4140
VG 4600	4600	4140	5060

2 .

AGMA

AGMA				
			cSt@40	SUS@100
1		-	41.4 ~ 50.6	193 ~ 235
2		2 EP	61.2 ~ 74.8	284 ~ 347
3		3 EP	90 ~ 110	417 ~ 510
4		4 EP	135 ~ 165	626 ~ 765
5		5 EP	198 ~ 242	918 ~ 1122
6		6 EP	288 ~ 352	1335 ~ 1632
7	COMPOUNDED*	7 EP	414 ~ 506	1919 ~ 2346
8	COMPOUNDED*	8 EP	612 ~ 748	2837 ~ 3467
8A	COMPOUNDED*	8A EP	900 ~ 1100	4171 ~ 5098

3. NLGI

(1)

NLGI	ASTM	
No. 000	445 ~ 475	
No. 00	400 ~ 430	
No. 0	355 ~ 385	
No. 1	310 ~ 340	
No. 2	255 ~ 295	
No. 3	220 ~ 250	
No. 4	175 ~ 205	
No. 5	130 ~ 160	
No. 6	85 ~ 115	

(2) NLGI

(Viscosity)

(consistency)

가

National

Lubricating Grease Institute

가

9

NLGI	[0.1 mm]	
000	445 ~ 475	(Fluid grease)
00	400 ~ 430	
0	355 ~ 385	
1	310 ~ 340	(Soft grease)
2	265 ~ 295	
3	220 ~ 250	
4	175 ~ 205	
5	130 ~ 160	(sticky grease)
6	85 ~ 115	

(00) (000) (1), (2) (3) . 5 6 가 EP 2 (" 2 - ")

4. SAE

(1) SAE

(Engine Oil Viscosity Classification - SAE J - 300 JUN 89)

SAE	() (cP)		cSt (100)		
		(ASTM D 4684)			
0W	3250 (-30)	30000(-35)	3.8	-	KS M 2121 0
5W	3500 (-25)	30000(-30)	3.8	-	KS M 2121 5
10W	3500 (-20)	30000(-25)	4.1	-	KS M 2121 10
15W	3500 (-15)	30000(-20)	5.6	-	KS M 2121 15
20W	4500 (-10)	30000(-15)	5.6	-	KS M 2121 20
25W	6000 (-5)	30000(-10)	9.3	-	KS M 2121 25
20	-	-	5.6	9.3	KS M 2121 20
30	-	-	9.3	12.5	KS M 2121 30
40	-	-	12.5	16.3	KS M 2121 40
50	-	-	16.3	21.9	KS M 2121 50
60	-	-	21.9	26.1	KS M 2121 60

(2) SAE

(SAE -J-306 MAR 89 Transmission Axle)

SAE	150,000cP(150Pa.s) (),	cSt 100		
70W	-55	4.1	-	
75W	-40	4.1	-	KS M 2127
80W	-26	7.0	-	KS M 2127
85W	-12	11.0	-	KS M 2127
90	-	13.5	<24.0	KS M 2127
140	-	24.0	<41.0	KS M 2127
250	-	41.0	-	

5. AGMA

(1) AGMA

R & O	, 가
EP	가 , -
	3~10% 가 , .
	, , ,

* AGMA : American Gear Manufacturers Association

(2) AGMA

R & O	, 가
EP	- 가
-	가 EP

(3) AGMA

1)

	ISO	cSt(mm ² /s, 40)		KS M 2127
1	46	41.4	50.6	1 ISO VG 46
2	68	61.2	74.8	1 ISO VG 68
3	100	90	110	1 ISO VG 100
4	150	135	165	1 ISO VG 150
5	220	198	242	1 ISO VG 220
6	320	288	352	1 ISO VG 320

2) E P

	ISO	cSt(mm ² /s, 40)		KS M 2127
2	68	61.2	74.8	1 ISO VG 68
3	100	90	110	1 ISO VG 100
4	150	135	165	1 ISO VG 150
5	220	198	242	1 ISO VG 220
6	320	288	352	1 ISO VG 320
7	460	414	506	1 ISO VG 460
8	680	612	748	1 ISO VG 680
8A	1000	900	1100	-

(4) A G M A

AGMA		cSt @40	SUS @ 100
1	-	41.4 ~ 50.6	193 ~ 235
2	2 EP	61.2 ~ 74.8	284 ~ 347
3	3 EP	90 ~ 110	417 ~ 510
4	4 EP	135 ~ 165	626 ~ 765
5	5 EP	198 ~ 242	918 ~ 1122
6	6 EP	288 ~ 352	1335 ~ 1632
7 Compounded ⁽¹⁾	7 EP	414 ~ 506	1919 ~ 2346
8 Compounded ⁽¹⁾	8 EP	612 ~ 748	2837 ~ 3467
8A Compounded ⁽¹⁾	8A EP	900 ~ 1100	4171 ~ 5098

() Compounded 3~10%

(5)

STLE

STLE	STLE	@ 40		
		SUS	cSt	
64 - 1	H-150	123 ~ 150.9	26.0 ~ 32.1	
64 - 2	H-215	177.6 ~ 215.5	38 ~ 46.3	
64 - 3	H-315	259.2 ~ 315	55.8 ~ 68.0	
64 - 4	H-700	574 ~ 704	124.0 ~ 152.0	
64 - 5	S-32	28.8 ~ 34.3	1.0 ~ 2.5	
64 - 6	S-60	51.6 ~ 62.4	7.8 ~ 11.0	
64 - 7	S-105	87.8 ~ 106.3	17.6 ~ 22.0	
64 - 8	W-150	124.1 ~ 151.4	26.1 ~ 32.2	Stick slip
64 - 9	W-315	261 ~ 315.4	55.8 ~ 68.1	
64 - 10	W-1000	821 ~ 1002	177.3 ~ 216.4	
68 - 1	G-315	258 ~ 315	55.6 ~ 68.0	
68 - 2	G-1000	821 ~ 215.4	177.3 ~ 215.4	
68 - 3	G-1500	1230 ~ 1538	265.6 ~ 332.0	
68 - 4	G-2150	1760 ~ 2149	380 ~ 464	
70 - 1	H-150AW	137 ± 10%	26.2 ~ 32.0	
70 - 2	H-215AW	195 ± 10%	37.6 ~ 46.0	
70 - 3	H-315AW	286 ± 10%	55.6 ~ 68.0	