

SAE GEAR OIL VISCOSITY CLASSIFICATION J306 JUL 98

SAE Viscosity Grade	Maximum Temperature for Viscosity of 150,000 cP, °C	Viscosity (cSt) @ 100°C		Approx. Equivalent ISO Grading
		Min.	Max.	
70W	-55	4.1	-	22-32
75W	-40	4.1	-	22-46
80W	-26	7.0	-	46-100
85W	-12	11.0	-	100-150
80	-	7.0	<11.0	46-100
85	-	11.0	<13.5	100-150
90	-	13.5	<24.0	150-320
140	-	24.0	<41.0	320-680
250	-	41.0	-	1000

API GEAR LUBRICANT CLASSIFICATIONS

Classification	Type	Typical Application
GL-1	Straight mineral oil.	Some automotive manual transmissions under mild service.
GL-2	Usually contains fatty material.	Worm gear drives and industrial gear boxes.
GL-3	Contains mild EP additives.	Manual transmission and spiral bevel final drives under moderate service conditions.
GL-4	Contains EP additives. Equivalent to MIL-L-2105.	Manual transmissions and transaxles, spiral bevel and hypoid gears in normal severe service without shock loading.
GL-5	Contains higher concentration of EP additives. Equivalent to MIL-L-2105 B/C/D.	Hypoid and all other types of gears in severest service including shock loading. Primary field service recommendation for most passenger cars and trucks. Also may be used in manual transmissions.
GL-6	Obsolete.	