

NEW SAE GEAR OIL

VISCOSITY CHART

Please see below the latest revision to the SAE Gear Oils chart.

As you can see, there are two new grades, SAE 110 and SAE 190.

SAE 110 we believe is designed to cater for SAE 90 situations where greater durability is required but traditional SAE 140 is considered too heavy, or in SAE 140 applications where a lighter oil is needed for fuel economy or heat reduction but traditional SAE 90 grades are considered too light.

SAE 190 we believe is designed to cater for SAE 140 situations where greater durability is required but a traditional SAE 250 is considered too heavy.

SAE J306 Revised JUN2005

Automotive Gear Lubricant Viscosity Classification

SAE Viscosity Grade	Maximum Temperature for Viscosity of 150 000 cP, °C ^(1,2)	Kinematic Viscosity at 100 °C, cSt ⁽³⁾ Minimum ⁽⁴⁾	Kinematic Viscosity at 100 °C, cSt ⁽³⁾ Maximum
70W	-55 ⁽⁵⁾	4.1	-
75W	-40	4.1	-
80W	-26	7.0	-
85W	-12	11.0	-
80	-	7.0	<11.0
85	-	11.0	<13.5
90	-	13.5	<18.5
110	-	18.5	<24.0
140	-	24.0	<32.5
190	-	32.5	<41.0
250	-	41.0	-

NOTE - 1cP = 1 mPa·s; 1 cSt = 1 mm²/s

1. Using ASTM D 2983.
2. Additional low-temperature viscosity requirements may be appropriate for fluids intended for use in light duty synchronized manual transmissions. See text.
3. Using ASTM D 445.
4. Limit must also be met after testing in CEC L-45-A-99, Method C (20 hours).
5. The precision of ASTM Method D2983 has not been established for determinations made at temperatures below -40 °C. This fact should be taken into consideration in any producer-consumer relationship.

No one has marketed these grades as yet but we ask that if you see any manufacturers requiring them that you please advise Head Office technical.