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AMSOIL
The First in Synthetics®

DATA BULLETIN

80W-90 Synthetic Gear Lube

Superior Replacement for Conventional Gear Oils



AMSOIL 80W-90 Synthetic Gear Lube is a multi-functional lubricant designed to surpass the requirements of equipment and automotive applications calling for an SAE 80W-90 viscosity grade. Formulated with wax-free synthetic base oils and high-quality additives, AMSOIL 80W-90 Synthetic Gear Lube resists thermal breakdown. Its naturally high viscosity index and shear-stable construction improve film strength and viscosity retention. AMSOIL 80W-90 Synthetic Gear Lube provides outstanding protection for gears and bearings, resists heat and helps extend equipment life.

APPLICATIONS

AMSOIL 80W-90 Synthetic Gear Lube is recommended for use under various combinations of high-speed, shock loads, low-speed and high-torque conditions. It is recommended for use in light- and heavy-duty, automotive, commercial or industrial applications requiring SAE 80W-90 EP gear lube.

AMSOIL 80W-90 Synthetic Gear Lube replaces conventional 80W-90 gear oils and is formulated to exceed the lubrication and performance requirements of front and rear differentials, transfer cases, transaxles, manual transmissions, oil-lubricated wheel bearings and steering gear boxes that require any of the following specifications:

API GL-5 & MT-1, MIL-PRF-2105E, Dana* SHAES* 234 (formerly Eaton* PS-037) for 250,000 miles, Mack* GO-J, Arvin/Meritor* O-76D plus hypoid gear oil specifications from foreign or domestic manufacturers such as GM*, Ford* and Daimler Chrysler*.

Can also be used in rear axles where API Service GL-4 lubricant is recommended.

- **High-load** gear and bearing protection
- **Long** oil and equipment life
- **Helps reduce** maintenance costs
- **Compatible** with conventional and synthetic gear lubes
- **Multi-functional** for multiple applications



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Order by Phone 1-800-956-5695 - Give Operator Reference #5983322

TYPICAL TECHNICAL PROPERTIES
AMSOIL 80W-90 Synthetic Gear Lube (AGL)

Kinematic Viscosity @ 100°C, cSt (ASTM D445)	15.5
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	120.2
Viscosity Index (ASTM D2270)	135
Brookfield Viscosity, cP @ -26°C (ASTM D2983)	46,200
Flash Point, °C (°F) (ASTM D92)	208 (406)
Pour Point, °C (°F) (ASTM D97)	-42 (-44)
Falex Procedure B (failure load, lbf.) (ASTM D3233)	2000
Foam Stability (ASTM D892)	0/0, 0/0, 0/0

For product service life in differentials, consult the owner's manual or the original equipment manufacturer (OEM) to establish the application, normal or severe.

	Normal Service	Severe Service
Cars, SUVs, Light Trucks	Drain at **100,000 miles** of service or according to the owner's manual, whichever is longer.	Drain at **50,000 miles** of service or according to the owner's manual, whichever is longer.
Heavy-Duty Class 8 Line Haul	Follow the OEM drain interval (miles or hours) for synthetic oil up to **250,000 miles** or three years, whichever comes first.	
Vocational/Delivery	Follow the OEM drain interval (miles or hours) for synthetic oil up to **120,000 miles** or three years, whichever comes first.	
Heavy-Duty Off-Road	Follow the OEM drain interval (miles or hours) for synthetic oil up to **100,000 miles** or two years, whichever comes first.	

For product service life in non-differential applications, consult the owner's manual or the OEM for either normal or severe synthetic oil service intervals. Where service intervals are unavailable, drain at twice the interval for conventional oil.

Note: AMSOIL does not support extended drain intervals where water contamination occurs. Check and service the gear oil frequently when water contamination is possible. Gear oil should be changed more frequently when operating vehicles or equipment in dusty or dirty conditions unless the gear system is properly sealed and equipped with membrane-type breathers.

AMSOIL 80W-90 Synthetic Gear Lube is compatible with conventional and synthetic gear oil. Mixing AMSOIL Synthetic Gear Lube with other oil, however, will shorten the oil's life expectancy and reduce the performance benefits. AMSOIL does not support extended drain intervals where oils have been mixed.

AMSOIL 80W-90 Synthetic Gear Lube is compatible with most limited-slip differentials. If limited-slip differential chatter occurs, add AMSOIL Slip Lock® friction modifier additive.

AMSOIL PRODUCT WARRANTY
AMSOIL products are backed by a Limited Liability Warranty. For complete information visit www.amsoil.com/warranty.aspx.

HEALTH AND SAFETY
This product is not expected to cause health concerns when used for the intended applications and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available online at www.amsoil.com or upon request at (715) 392-7101. **Keep Out of Reach of Children**. Recycle used oil and bottle.

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AMSOIL products and Dealership information are available from your local full-service AMSOIL Dealer.

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