



## 80W-90 Synthetic Gear Lube

### Superior Replacement for Conventional Gear Oils

AMSOIL 80W-90 Synthetic Gear Lube is a multi-functional product 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 exceeds 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
- Longer Oil and Equipment Life
- Lower Maintenance Costs
- Compatibility With Conventional and Synthetic Gear Lubes
- Multi-functional for Multiple Applications



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

Kinematic Viscosity @ 100°C, cSt (ASTM D 445).....	16.0
Kinematic Viscosity @ 40°C, cSt (ASTM D 445).....	128.1
Viscosity Index (ASTM D 2270) .....	133
Brookfield Viscosity, cP @ -26°C (ASTM D 2983).....	40,482
Flash Point, °C (°F) @ 150°C (ASTM D 92).....	216 (421)
Pour Point, °C (°F) (ASTM D 97).....	-42 (-44)
Falex Procedure B (failure load, lbf.) (ASTM D 3233).....	2000
Foam Stability (ASTM D 892).....	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
<b>Cars, SUVs, Light Trucks</b>	Drain at <b>100,000 miles</b> of service or according to the owner’s manual, whichever is longer	Drain at <b>50,000 miles</b> of service or according to the owner’s manual, whichever is longer
<b>Heavy Duty Class 8 Line Haul</b>	Follow the OEM drain interval (miles or hours) for synthetic oil up to <b>250,000 miles</b> or three years, whichever comes first.	
<b>Vocational/Delivery</b>	Follow the OEM drain interval (miles or hours) for synthetic oil up to <b>120,000 miles</b> or three years, whichever comes first.	
<b>Heavy Duty Off-Road</b>	Follow the OEM drain interval (miles or hours) for synthetic oil up to <b>100,000 miles</b> 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 oils 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 oils. Mixing AMSOIL Synthetic Gear Lube with other oils, however, will shorten the oil 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 products and Dealership information are available from your local AMSOIL Dealer.