



The First in Synthetics®

Severe Gear® Synthetic Extreme Pressure (EP) Lubricants

**75W-90 (SVG), 75W-110 (SVT)
& 75W-140 (SVO)**

Formulated for the severe operating conditions of today's pick-up trucks, SUVs, heavy equipment and other hard-working vehicles.

Product Description

AMSOIL Severe Gear® Synthetic Extreme Pressure (EP) Lubricants are premium-grade gear oils specifically engineered for maximum performance in severe-duty applications. These state-of-the-art AMSOIL formulations feature an exclusive blend of high-viscosity, shear-stable synthetic base oils and an extra treatment of high-performance additives. AMSOIL Severe Gear Synthetic EP Lubricants maintain their viscosity for long-lasting protection against metal-to-metal contact. The proprietary AMSOIL additives form an iron-sulfide barrier coating on gear surfaces, providing the ultimate line of defense against wear, pitting and scoring. AMSOIL Severe Gear Lubricants help prevent "thermal runaway" — a phenomenon caused by a lubricant's inability to control friction and increased heat under high-stress conditions. By controlling thermal runaway, AMSOIL Severe Gear Synthetic EP Lubricants inhibit rapid lubricant degradation and component damage. Equipment runs better and lasts longer with AMSOIL Severe Gear Synthetic EP Lubricants.

Performance

AMSOIL Severe Gear provides performance beyond that possible with conventional gear oil. These AMSOIL custom products offer superior gear and bearing protection, better friction and heat reduction, increased efficiency and extended service life.



- **Superior Film Strength**
- **Control Thermal Runaway**
- **Rust and Corrosion Protection**
- **Reduced Operating Temperatures**
- **Improved Efficiency**
- **Longer Oil, Seal, & Equipment Life**

Temperature Extremes

AMSOIL Severe Gear EP lubricants excel in hot and cold temperature extremes. By design, they resist breakdown from high heat, preventing acids and carbon/varnish formation. Their wax-free construction also improves cold-flow properties, improving fuel economy and cold-weather shifting.

Applications

AMSOIL Severe Gear Synthetic EP Lubricants are excellent for severe applications, such as towing, hauling, steep-hill driving, commercial use, plowing, racing, off-road use, rapid acceleration, frequent stop-and-go operation and high ambient temperatures.

Higher horsepower, towing and hauling capabilities of modern vehicles make turbo-diesel pick-ups, SUVs, vans and delivery/utility vehicles especially prone to severe service. Other severe-duty vehicles include light, medium and heavy-duty trucks, buses, heavy equipment, 4X4s, tow trucks, race cars, tractors, and motor homes.



TYPICAL TECHNICAL PROPERTIES

AMSOIL Severe Gear® Synthetic Extreme Pressure (EP) Lubricants 75W-90, 75W-110 & 75W-140

	SAE 75W-90 (SVG)	SAE 75W-110 (SVT)	SAE 75W-140 (SVD)
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	16.7	20.4	25.7
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	109.1	141.3	184.3
Viscosity Index	165	167	174
Brookfield Viscosity, cP (150,000 Max) @-40°C	68,150	118,500	128,200
Flash Point, °C (°F) (ASTM D-92) 150°C Min.	220 (428)	220 (428)	212 (414)
Pour Point, °C (°F) (ASTM D-97)	-50 (-58)	-48 (-54)	-48 (-54)
Copper Corrosion (ASTM D-130) 1b Max @ 121 °C (250°F) / 3hr	1b	1b	1b
Falex Procedure B (ASTM D-3233) (failure load, lbf.)	2500	2500	2500
Foam Stability (ASTM D-892) (20/50/20 maximum)	0/0/0	0/0/0	0/0/0

For product service life in differentials, consult your owner's manual or the Original Equipment Manufacturer (OEM) to establish the application, NORMAL or SEVERE.

	NORMAL	SEVERE
Cars, SUV, Light & Medium-Duty 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 3 years, whichever comes first. Otherwise, drain at twice the OEM interval for conventional oil.	
Heavy-Duty Off-Road Vocational	Follow the OEM drain interval (miles or hours) for synthetic oil up to 120,000 miles or 1 year, whichever comes first. Otherwise, drain at twice the OEM interval for conventional oil.	

For product service life in non-differential applications, consult 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.

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.

Note: AMSOIL does not support extended drain intervals where water contamination occurs. Check and service the gear oil frequently when water contamination is possible.

Recommended for use in differentials, manual transmissions and other gear applications requiring any of the following specifications: **API GL-5, MT-1, MIL-PRF-2105E, Dana SHAES 234 (Formerly Eaton PS-037), Mack GO-J**, or the differential (hypoid) gear oil specifications from all domestic and foreign manufacturers such as GM, Ford and Daimler Chrysler. Can also be used in axles where an API GL-4 lubricant is recommended.

AMSOIL Severe Gear (75W-90) provides superior performance and replaces competitors' 75W-90 and 80W-90 gear oils. It delivers the best fuel efficiency and cold-temperature performance of the Severe Gear oils.

AMSOIL Severe Gear (75W-110) provides superior performance and replaces competitors' 75W-110, 75W-90 and 80W-90 gear oils. It delivers better viscosity protection than Severe Gear 75W-90 and better fuel efficiency than Severe Gear 75W-140. Use 75W-140 where required by OEM.

AMSOIL Severe Gear (75W-140) provides superior performance and replaces competitors' 75W-140, 80W-140 and 85W-140 gear oils. Use where these viscosities are required by OEMs and where maximum viscosity protection is needed for extreme severe-duty applications.

AMSOIL Severe Gear is compatible with conventional and synthetic gear oils. Mixing AMSOIL gear oils 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.

Aftermarket oil additives, other than those specified by AMSOIL, are not recommended for use with AMSOIL gear oils.

AMSOIL Severe Gear is compatible with most limited-slip differentials. If limited-slip differential chatter occurs, add AMSOIL Slip-Lock™ friction modifier additive.

HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Material Safety Data Sheet (MSDS). An MSDS is available via the Internet at www.amsoil.com or upon request at (715) 392-7101.

Keep Out of Reach of Children. Don't pollute. Return used oil to collection centers.

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



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<http://www.JMAlaska.com>

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