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DATA BULLETIN

The First in Synthetics®

Severe Gear® 100% Synthetic Extreme Pressure (EP) Gear Lube

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



AMSOIL Severe Gear® 100% Synthetic Extreme Pressure (EP) Gear Lube is a premium-grade gear oil specifically engineered for maximum performance in severe-duty applications. It maintains its 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 helps 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 100% Synthetic EP Gear Lube inhibits rapid lubricant degradation and component damage – helping equipment run better and last longer.

- **Superior** film strength
- **Controls** thermal runaway
- **Protects** against rust and corrosion
- **Helps Reduce** operating temperatures
- **Maximum** efficiency
- **Long** oil, seal & equipment life
- **Flexible** easy-pack for clean, fast installation

Performance

AMSOIL Severe Gear provides performance far beyond what is possible with conventional gear oil. AMSOIL engineered its gear lubes to provide superior gear and bearing protection, better friction and heat reduction, increased efficiency and extended service life.

Temperature Extremes

AMSOIL Severe Gear 100% Synthetic EP Gear Lube excels in hot and cold temperature extremes. By design, it resists breakdown from high heat, preventing acids and carbon/varnish formation. Its wax-free construction also improves cold-flow properties, improving fuel economy and cold-weather shifting.

Applications

AMSOIL Severe Gear 100% Synthetic EP Gear Lube is 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 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.

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

TYPICAL TECHNICAL PROPERTIES

AMSOIL Severe Gear® Synthetic Extreme Pressure (EP) Gear Lube

	SAE 75W-90 (SVG)	**SAE 75W-110** (SVT)	**SAE 75W-140** (SVO)
Kinematic Viscosity @ 100°C, cSt (ASTM D445)	15.9	20.9	26.1
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	102.4	139.9	177.7
Viscosity Index (ASTM D2270)	166	174	181
Brookfield Viscosity, cP @-40°C (ASTM D2983)	78,400	102,100	109,400
Flash Point, °C (°F) (ASTM D92)	208 (406)	216 (421)	210 (410)
Pour Point, °C (°F) (ASTM D97)	-43 (-45)	-44 (-47)	-43 (-45)
Copper Corrosion (ASTM D130) @ 121 °C (250°F) / 3hr	1b	1b	1b
Falex Procedure B (ASTM D3233) (failure load, lbf.)	>3500	>3500	>3500
Foam Stability (ASTM D892)	0/0, 10/0, 0/0	0/0, 20/0, 0/0	0/0, 20/0, 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 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 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 other GL-5 based specifications from vehicle manufacturers, including Ford*, GM* and 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.

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 oil 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 oil.

AMSOIL Severe Gear is compatible with most limited-slip differentials. For applications that require additional limited-slip friction modifier, add AMSOIL Slip Lock®.

AMSOIL PRODUCT WARRANTY

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

HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS 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 The First in Synthetics®

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

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