



PROTECTION | **PERFORMANCE**
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DATA SHEET

100% Synthetic Manual Transmission & Transaxle Gear Lube

Formulated specifically for demanding manual transmission and transaxle applications

Towing, heavy hauling and performance driving create shock-loading conditions and elevated heat that threaten the performance and life of manual transmissions and transaxles. Making matters worse, horsepower, torque and towing capacities seem to increase with each new vehicle model year, increasing severity. AMSOIL 100% Synthetic Manual Transmission & Transaxle Gear Lube is specifically formulated to reduce friction and maintain viscosity for long component and fluid life. It is designed to excel in severe-service conditions that exceed the limitations of conventional fluids.

Protects Against Wear & Heat in Severe Applications

AMSOIL 100% Synthetic Manual Transmission & Transaxle Gear Lube is shear-stable and maintains its viscosity despite rigorous mechanical action. It provides a thick lubricating film and contains extreme-pressure additives to protect against wear in severe-service and shock-loading conditions common when towing or hauling. It resists thermal degradation and oxidation for excellent performance in high-temperature applications, such as the New Venture* NV-4500 transmission, which retains heat due to its cast-iron housing and is often subject to increased torque from turbodiesel engines.

Quick Shifts & Excellent Protection in Hot Rods and Muscle Cars

AMSOIL 100% Synthetic Manual Transmission Gear Lube's friction-modified formula and excellent cold-flow properties promote smooth, fast engagement of synchronizers and gears. It protects against wear caused by the high-horsepower, large-displacement engines common to hot rods and muscle cars. It is formulated with seal conditioners to reduce leaks.

Promotes Longevity in Front-Wheel-Drive Transaxles

AMSOIL 100% Synthetic Manual Transmission Gear Lube meets 75W/80W-90 viscosity requirements and exceeds API GL-4 performance requirements for many front-wheel-drive vehicles. Its excellent gear protection, extreme-temperature performance and durability promote maximum longevity and reduced maintenance costs.



- **Protects** against increased heat and pressure.
- **Outstanding** cold-flow properties.
- **Protects** brass synchronizers.
- **Friction-modified.**
- **Excellent** seal compatibility.
- **Inhibits** rust and corrosion.
- **Long** service life.



TYPICAL TECHNICAL PROPERTIES

100% Synthetic Manual Transmission & Transaxle Gear Lube (MTG)

Kinematic Viscosity @ 100°C, cSt (ASTM D445)	14.0
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	80.3
Viscosity Index (ASTM D2270)	181
Flash Point °C (°F) (ASTM D92)	226 (439)
Pour Point °C (°F) (ASTM D97)	-56 (-69)
Four-Ball Wear Test (ASTM D4172B @ 40 kg, 75°C, 1200 rpm, 1hr), Scar, mm	0.40
Brookfield Viscosity @ -40°C, cP (ASTM D2983)	28,425
Foam Stability (ASTM D892)	0/0, 0/0, 0/0
Copper Corrosion 3 hr, 121°C (ASTM D130)	1B

APPLICATIONS

Use in applications requiring a 75W-85, 75W-90 or 80W-90 viscosity gear oil with any of the listed specifications:

- API GL-4
- Chrysler MS-9070
- ZF TE-ML 02b, 17a
- MAN 341-Z2 (formerly MAN 341 ML)
- MB 235.5

Replaces GM part #12346190 and Chrysler part #4874459.

Examples of transmissions and transaxles requiring a 75W-90, API GL-4 lubricant include certain models of Hyundai, Infiniti, Kia, Lexus, Mazda, Mitsubishi, Nissan, Suzuki, Toyota, Volkswagen and Hino.

Examples of street rod and muscle car transmissions include Muncie, Borg Warner, Saginaw, Ford Toploader, Dearborn and New Process.

SERVICE LIFE

Under normal operating conditions, AMSOIL 100% Synthetic Manual Transmission & Transaxle Gear Lube lasts two times longer than conventional petroleum GL-4 gear oils. Where the original equipment manufacturer (OEM) recommends synthetic oils, follow the OEM drain interval (such as NV-4500).

AMSOIL PRODUCT WARRANTY

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

HEALTH & 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 via the Internet at AMSOIL.com or upon request at 715-392-7101. **Keep Out of Reach of Children.** Recycle used oil and bottle.

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www.SyntheticOils.us

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