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DATA BULLETIN

The First in Synthetics®

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 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

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

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

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

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

TYPICAL TECHNICAL PROPERTIES

Synthetic Manual Transmission & Transaxle Gear Lube (MTG)

Kinematic Viscosity @ 100˚C, cSt (ASTM D445)	13.9
Kinematic Viscosity @ 40˚C, cSt (ASTM D445)	87.6
Viscosity Index (ASTM D2270)	162
Flash Point ˚C (˚F) (ASTM D92)	214 (417)
Pour Point ˚C (˚F) (ASTM D97)	-54 (-65)
Four-Ball Wear Test (ASTM D4172B @ 40 kg, 75˚C, 1200 rpm, 1hr), Scar, mm	0.40
Brookfield Viscosity @ -40˚C, cP (ASTM D2983)	34,320
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 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 www.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 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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