



## 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.



SAE 75W-90 • API GL-4

- 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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## TYPICAL TECHNICAL PROPERTIES

### Synthetic Manual Transmission & Transaxle Gear Lube (MTG)

Kinematic Viscosity @ 100°C, cSt (ASTM D 445)	13.9
Kinematic Viscosity @ 40°C, cSt (ASTM D 445)	87.6
Viscosity Index (ASTM D 2270)	162
Flash Point °C (°F) (ASTM D 92)	214 (417)
Pour Point °C (°F) (ASTM D 97)	-54 (-65)
Four-Ball Wear Test (ASTM D 4172B @ 40 kg, 75°C, 1200 rpm, 1hr), Scar, mm.	0.40
Brookfield Viscosity @ -40°C, cP (ASTM D 2983)	33,290
Foam Stability (ASTM D 892)	0/0, 20/0, 0/0
Copper Corrosion 3 hr, 121°C (ASTM D 130)	1B

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## APPLICATIONS

Synthetic Manual Transmission & Transaxle Gear Lube is recommended for 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 last 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).



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[www.SyntheticOils.us](http://www.SyntheticOils.us)

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