



**SERIES 2000**

# SYNTHETIC GEAR LUBES

75W-90: API MT-1 • GL-2 through GL-5 • MIL-PRF-2105E  
Mack GO-J, GO-J Plus • Chrysler MS-9070  
GM 12346190 • Ford M2C-201-A  
Rockwell 0-76-E • Eaton PS-037A, PS-109

75W-140: API MT-1, GL-5 • MIL PRF 2105E  
Rockwell 0-76-E • Eaton PS-037A, PS-109  
Mack GO-J, GO-J Plus • Ford M2C 192 A  
Chrysler MS-8985 • GM 12346190

***Provides superior lubrication, protection and fuel economy in racing and commercial applications***

## PRODUCT DESCRIPTION

AMSOIL Series 2000 Synthetic Gear Lubes are race-proven extreme pressure lubricants engineered to meet the severe high-load and high-temperature demands of contemporary race and commercial vehicle differentials and gear-lube equipped transmissions. They provide the superior friction, heat and load control demanded by race drivers, the superior fuel economy required by commercial vehicle operators and the superior performance sought by all motorists.

## Friction Reduction and Fuel Economy

AMSOIL Series 2000 Synthetic Gear Lubes offer exceptionally low coefficients of friction for superior power transfer, heat control and fuel economy.

In fact, independent testing shows class 8 vehicles with AMSOIL Series 2000 Synthetic 75W-90 Gear Lube in the differentials obtained up to 4.83 percent more mpg than vehicles equipped with another popular gear lube.

## High Load and Extreme Pressure Performance

AMSOIL Series 2000 Synthetic Gear Lubes promote long life for gears, including those subject to high loads and severe service. The superior film strength of their synthetic basestocks ensures protection from wear for gears operating with full-film lubrication. Top-quality extreme pressure agents ensure protection from wear for gears operating without full-film lubrication.

## High Temperature Performance

AMSOIL Series 2000 Synthetic Gear Lubes offer the thermal stability and durability, oxidation resistance and shear stability required for optimal protection in the hot environments in which race and commercial vehicle gears operate. Thermal stability and oxidation resistance keep gears and seals clean by inhibiting the heat-induced formation of sludge and deposits. Thermal durability protects gears from physical damage by pre-

venting heat-induced failure of anti-wear chemistry. Shear stability helps prevent metal-to-metal contact and wear in high-temperature operations.

## Low Temperature Protection

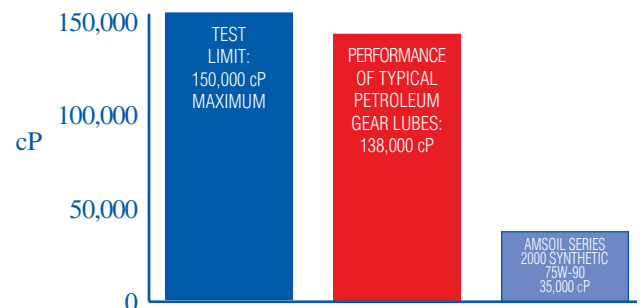
AMSOIL Series 2000 Synthetic Gear Lubes are ideally suited for low temperature applications (see graph). Their low temperature fluidity ensures excellent low temperature performance, protection and fuel economy.

## Seal Compatibility and Rust and Foam Inhibition

AMSOIL Series 2000 Synthetic Gear Lubes form a barrier on gear surfaces that seals out water to inhibit rust and corrosion. Foam inhibitors ensure protection in conditions that favor lubricant foaming and consequent metal-to-metal contact and wear.

AMSOIL Series 2000 Synthetic Gear Lubes have been shown to help seals perform better and last longer.

## COLD TEMPERATURE PERFORMANCE BROOKFIELD VISCOSITY TEST @ -40°C (-40°F) ASTM D3829



The lower a gear lube's viscosity (in cP), the better it flows in cold temperatures. AMSOIL Series 2000 Synthetic 75W-90 Gear Lube significantly outperforms conventional petroleum lubes, which means it offers significantly better protection against wear.

# TYPICAL TECHNICAL PROPERTIES

## AMSOIL SERIES 2000 SYNTHETIC GEAR LUBES

	75W-90 (TGR)	75W-140 (TGO)
Kinematic Viscosity @ 100°C, cSt (ASTM D445)	15.7	24.8
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	113.5	176.4
Viscosity Index (ASTM D2270)	146	173
Flash Point, °C [°F] (ASTM D92)	198 [338]	202 [396]
Fire Point, °C [°F] (ASTM D92)	216 [421]	220 [428]
Pour Point, °C [°F] (ASTM D97)	-46 [-51]	-46 [-51]
Brookfield Viscosity, @ -40°C [-40°F], cP (ASTM D3829)	35,000	133,000
Noack Volatility, % weight loss (g/100g) (DIN 51581)	11.4	14.5
Four Ball Wear Test, scar diameter in mm (ASTM D4172B: 40 kgf, 150°C, 1800 rpm, 1 hr)	0.40	0.40

### Applications

AMSOIL Series 2000 Synthetic Gear Lubes exceed the following lubrication and performance requirements.

#### 75W-90 (TGR):

- API MT-1, GL2 through GL-5
- MIL-PRF-2105E
- MACK GO-J, GO-J PLUS
- Chrysler MS-9070
- GM 12346190
- Ford M2C-201-A
- Rockwell 0-76-E
- Eaton PS-037A, PS-109

#### 75W-140 (TGO):

- API MT-1, GL-5
- MIL PRF 2105E
- Rockwell 0-76-L
- Eaton PS-037A, PS-109
- Mack GO-J, GO-J Plus
- Ford M2C 192 A
- Chrysler MS-8985
- General Motors 12346190

AMSOIL Series 2000 Synthetic Gear Lubes provide limited slip performance. Although generally not necessary, original equipment manufacturers' limited slip additives may be used in conjunction with AMSOIL Series 2000 Synthetic Gear Lubes.

**Note:** most vehicle manufacturers recommend driving a vehicle in tight figure "8" patterns eight to ten times after changing limited slip lubricants.

### New Vehicles Under Warranty

The use of AMSOIL Series 2000 Synthetic Gear Lubes will not void new vehicle warranties. AMSOIL Series 2000 Synthetic Gear Lubes meet the performance criteria shown in "Applications" (above) and may be used in equipment requiring fluids that meet any or all the specifications shown.

### Installation

AMSOIL Series 2000 Synthetic Gear Lubes are fully compatible with other fluids used in geared applications. To install AMSOIL Series 2000 Synthetic Gear Lubes, drain the fluid in the system and install the AMSOIL Series 2000 Synthetic Gear Lube of your choice.

### Service Life

AMSOIL Series 2000 Synthetic Gear Lubes last longer than conventional petroleum gear lubes do. In non-commercial passenger vehicles operated under normal conditions, AMSOIL Series 2000 Synthetic Gear Lubes do not have to be drained. In cases of severe water or dirt contamination, a chemical lube analysis can determine if the gear lube is still serviceable.

In commercial vehicles operated under normal conditions, AMSOIL Series 2000 Synthetic Gear Lubes may be used up to five times longer than petroleum gear lubes may be used.

### Product Warranty

AMSOIL INC. warrants that the use of its lubricants will not cause mechanical damage to mechanically sound equipment when AMSOIL INC. products are used in full compliance with AMSOIL recommendations.

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

