



MP Gear Lube

Phillips 66® Gear Lube is a multipurpose, API GL-5 automotive gear lubricant specifically designed for use in passenger car and truck axles with hypoid gear sets. It also is recommended for use in some heavy-duty manual transmissions in trucks and buses.

MP Gear Lube is formulated to provide long service life and extended gear life in automotive differentials operating under varying conditions of speed, load, temperature and torque. The carefully balanced formulation is designed to minimize oxidative sludge and varnish formation, reduce wear, prevent scoring damage, and protect against metal fatigue and spalling damage under shock-load conditions.

Applications

- Service fill of conventional differentials in passenger cars and trucks
- Top-off only of limited-slip differentials in passenger cars and light trucks⁽¹⁾
- Service fill of differentials, final drives and transfer cases in some off-highway equipment
- Non-synchronized manual transmissions in trucks, buses and heavy equipment where the manufacturer specifies an API GL-5 or MT-1 gear oil

⁽¹⁾**Note:** For complete drain and refill, many limited-slip differentials may require the manufacturer's specified gear lubricant or supplemental additive. Refer to the owner's manual for specific requirements.

MP Gear Lube meets or exceeds the requirements of:

- API Service GL-5, MT-1
- Meritor O76-A (SAE 85W-140), O76-D (SAE 80W-90), O76-E (SAE 75W-90)
- MIL-PRF-2105E

MP Gear Lube is registered or approved for:

- Mack GO-J (SAE 80W-90, 85W-140)
- MAN 342 Type M2 (SAE 75W-90, SAE 80W-90)
- MAN 342 Type M1 (SAE 85W-140)
- SAE J2360 (SAE 80W-90, 85W-140)

**Multipurpose
Automotive Gear
Lubricant, API
GL-5/MT-1**

KEEPING THE
WORLD
RUNNING
SMOOTHLY. 



Features/Benefits

- Excellent oxidation resistance and thermal stability to minimize sludge and varnish formation
- Excellent thermal durability and extreme-pressure (EP) properties for extended gear life
- High load-carrying capacity for protection against scuffing and wear
- Protects against rust and corrosion
- Good foam resistance

MP Gear Lube

Typical Properties				
SAE Grade	75W-90	90	80W-90	85W-140
Specific Gravity @ 60°F	0.878	0.892	0.880	0.894
Density, lbs/gal @ 60°F	7.31	7.43	7.40	7.48
Color, ASTM D1500	1.0	2.5	2.5	2.5
Flash Point (COC), °C (°F)	190 (374)	220 (428)	220 (428)	225 (437)
Pour Point, °C (°F)	-45 (-49)	11 (-12)	-30 (-22)	-12 (10)
Viscosity, Brookfield				
cP @ -40°C	120,000	---	---	---
cP @ -26°C	---	---	105,000	---
cP @ -12°C	---	---	---	110,000
Viscosity, Kinematic				
cSt @ 40°C	101	183	146	336
cSt @ 100°C	15.0	17.2	14.5	25.0
Viscosity Index	156	95	97	96

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.