



LUBRICANTS

Syngear SS

Phillips 66® Syngear SS is a synthetic, multipurpose, API GL-5 automotive gear lubricant. It is specifically designed for use in passenger car and truck axles with hypoid gear sets operating in extreme temperatures or under severe driving conditions. It 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.

Syngear SS combines outstanding thermal stability and oxidation resistance at high temperatures with outstanding low-temperature properties to ensure excellent performance over a wide temperature range. It has been shown in field tests to lower operating temperatures in axles when compared with conventional mineral gear oils.

Applications

- Service fill of conventional differentials, and top-off only of limited-slip differentials, in passenger cars and 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 SAE 75W-140, 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.*

Syngear SS meets or exceeds the requirements of:

- API Service GL-5, MT-1
- Ford WSL-M2C192-A
- Meritor O76-M
- MIL-PRF-2105E
- SAE J2360

Syngear SS is approved for service fill under the following OEM specification:

- Mack GO-J

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

KEEPING THE
WORLD
RUNNING
SMOOTHLY. 



Features/Benefits

- Extended drain, all-season performance
- Outstanding oxidation resistance and thermal stability to minimize sludge and varnish formation
- Excellent thermal durability and extreme-pressure properties for extended gear life
- High load-carrying capacity for protection against scuffing and wear
- High shear stability
- Outstanding low-temperature properties
- Protects against rust and corrosion
- Good foam resistance
- Reduces axle operating temperatures compared with conventional mineral gear oils

Syngear SS

| Typical Properties | |
|----------------------------|-----------|
| SAE Grade | 75W-140 |
| Specific Gravity @ 60°F | 0.867 |
| Density, lbs/gal @ 60°F | 7.22 |
| Color, Visual | 1.5 |
| Flash Point (COC), °C (°F) | 190 (374) |
| Pour Point, °C (°F) | -46 (-51) |
| Viscosity, Brookfield | |
| cP @ -40°C | 139,000 |
| Viscosity, Kinematic | |
| cSt @ 40°C | 185 |
| cSt @ 100° C | 25.6 |
| Viscosity Index | 172 |

Health Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://3apps.phillips66.com/NetMSDS>.