



## High Performance Gear Oil

Phillips 66® High Performance Gear Oil is a heavy-duty, API GL-5 automotive gear lubricant specially designed for use in racing applications. It also will provide excellent protection in passenger car and truck axles with either conventional or limited-slip differentials.

High Performance Gear Oil is formulated with a thermally stable and thermally durable additive package fortified with additional extreme-pressure (EP) and antifoam additives to provide excellent protection for gear sets operating under severe conditions involving high speeds, high temperatures and/or high loads. 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.

High Performance Gear Oil is friction-modified to reduce chatter in limited-slip and positraction axles. It may be used for initial fill of new or rebuilt limited-slip differentials, for top-off and for refill after a complete drain.

### Applications

- Axles on racing vehicles
- Passenger car and truck axles with either conventional or limited-slip differentials
- Suitable for initial fill of new or rebuilt limited-slip differentials, for top-off and for refill after a complete drain

High Performance Gear Oil meets or exceeds the requirements of:

- API Service GL-5
- Mack GO-J
- MIL-PRF-2105E
- SAE J2360

### Features/Benefits

- Excellent 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
- Protects against rust and corrosion
- Good foam resistance
- Friction-modified to prevent chatter in limited-slip and positraction differentials

**Note:** *High Performance Gear Oil is not recommended for use in synchromesh manual transmissions with copper or bronze bushings.*

**High-  
Performance,  
Friction-  
Modified  
Automotive  
Gear Lubricant,  
API GL-5**

**KEEPING THE  
WORLD  
RUNNING  
SMOOTHLY.**





## High Performance Gear Oil

Typical Properties	
<b>SAE Grade</b>	<b>80W-90</b>
Specific Gravity @ 60°F	0.883
Density, lbs/gal @ 60°F	7.35
Color, ASTM D1500	3.0
Flash Point (COC), °C (°F)	212 (414)
Pour Point, °C (°F)	-30 (-22)
Viscosity, Brookfield	
cP @ -26°C	90,000
Viscosity, Kinematic	
cSt @ 40°C	139
cSt @ 100°C	14.5
Viscosity Index	103

## 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>.