

## DESCRIPTION

**Longlife Gear Oil** is a high-performance lubricant formulated with premium base oils and a sophisticated additive system, engineered to meet API GL-5 specifications for hypoid gears in automotive axles. Available in two viscosity grades, it ensures optimal performance across a broad spectrum of operating conditions, including high-speed, low-speed, high-torque, and extreme pressure environments. The advanced formulation incorporates specialty anti-scuffing additives and friction modifiers to deliver superior lubricity, minimizing wear and extending gear life. Its high shear stability resists degradation, preventing rust, oxidation, foaming, and varnish buildup, even under severe service conditions. Designed for differentials, rear axles, and final drives in passenger cars, light and heavy-duty trucks, and commercial vehicles, it also supports select industrial gear applications requiring API GL-5 lubricants. The lubricant's robust anti-wear properties enhance component durability, while its excellent thermal and oxidative stability supports extended service intervals, reducing maintenance frequency. Suitable for both on-road and off-road equipment, **Longlife Gear Oil** provides reliable, all-season performance in diverse climates, including extreme cold and high-temperature conditions. This versatile product ensures consistent operation, improved efficiency, and long-term protection for critical gear systems across automotive and industrial sectors.

## APPLICATIONS

**Longlife Gear Oil** is designed for:

- **Automotive and Industrial Gear Systems:** Optimized for differentials, rear axles, final drives, manual transmissions, and steering gears in passenger cars, trucks, and industrial equipment where API GL-5 is specified.

## SPECIFICATIONS & RECOMMENDATIONS

- API-GL-5

## ADVANTAGES & BENEFITS

- **Enhanced Gear Protection:** High film strength and extreme pressure additives prevent wear, scuffing, and scoring in hypoid gears under high-load and high-torque conditions.
- **Optimized Fuel Efficiency:** Premium base oils reduce frictional losses, improving fuel economy compared to conventional gear oils.
- **All-Season Versatility:** Multiple viscosity grades ensure reliable performance in extreme cold and high-temperature environments.
- **Extended Component Life:** Anti-wear properties and corrosion/rust inhibitors prolong gear and seal durability, including in limited-slip differentials.
- **Prolonged Service Intervals:** Superior thermal and oxidative stability, combined with high shear stability, supports extended drain intervals per manufacturer guidelines.
- **Effective Foam Suppression:** Advanced additives prevent foaming, ensuring consistent lubrication under high-speed and severe-service conditions.
- **Superior Load Capacity:** Specialty sulfur/phosphorus additives enhance load-carrying capabilities, safeguarding gears in extreme pressure applications.
- **Broad Application Compatibility:** Suitable for differentials, rear axles, and final drives in passenger cars, trucks, and industrial equipment, with excellent water separation.

## HEALTH & SAFETY

This product is not anticipated to pose any adverse health risks when used as intended. For additional details, refer to separate Safety Data Sheets, available upon request.



## TECHNICAL DATA/TECHNICAL PROPERTIES

PROPERTIES	SAE GRADE	
	80W-90	85W-140
Viscosity @ 100 °C, cSt	13.5 – 18.5	24 – 32.5
Viscosity Index	115	120
Pour Point, °C(°F)	-30 (-22)	-18 (0)
Flash Point, °C(°F)	>220 (428)	>220 (428)
Brookfield (ASTM D2983), cP	@-26 °C, < 150,000 cP	@-12 °C, < 150,000 cP
Product Code	LLGO-80W90	LLGO-85W140

\*All properties are typical and may vary.

Always adhere to the manufacturer's guidelines for the correct equipment fluid. Lubchem Specialties is not liable for any misuse of the product or improper application.