

**DESCRIPTION**

**Longlife Premium EP Gear Oil** is a high-performance synthetic blend extreme pressure (EP) gear lubricant engineered for severe-duty industrial gear applications under high loads, shock loading, and extreme pressure conditions. Formulated with premium synthetic base oils and a selected additive package, it delivers superior anti-wear and extreme pressure protection, excellent oxidation and thermal stability, and effective corrosion inhibition. The advanced formulation minimizes oil thickening and sludge formation during extended high-temperature service, significantly extending lubricant life, enhancing gear system reliability, and protecting against premature gear and bearing failure while supporting longer drain intervals in demanding environments.

**APPLICATIONS**

**Longlife Premium EP Gear Oils** are designed for use in:

- Industrial enclosed gearing (spur, helical, bevel, herringbone, and steel-on-steel worm gears) operating under heavy or shock loads in gearboxes and drives.
- Heavy-duty enclosed drives and high-torque/shock-loaded equipment, including conveyors, agitators, mixers, extruders, presses, pulpers, pumps, fans, and dryers.
- Plain and rolling-element bearings in high-load splash or circulating systems, plus severe-service industrial sectors (mining, cement, steel, pulp & paper, power generation, material handling, and heavy manufacturing) requiring extended lubricant life and resistance to sludge/oxidation.

**SPECIFICATIONS & RECOMMENDATIONS**

- AGMA 250.04, AGMA 9005-E02
- CINCINNATI MILACRON
- David Brown MIL-H-17672D
- CINCINNATI MACHINE P-38, P-45, P-54, P-55, P-57, P-62
- US STEEL 224
- DIN 51517 PART3
- GM LS2
- ISO 12925-1 CKC/CKD

**ADVANTAGES & BENEFITS**

- **Superior Thermal & Shear Stability:** Resists degradation up to 350°F, ensuring long service life in high-heat, high-shear drilling applications.
- **Exceptional EP Performance:** Strong film strength protects gears and bearings under heavy loads, extending equipment life.
- **Advanced Anti-Wear:** Minimizes wear on seals, bearings, and components, reducing maintenance and downtime.
- **Robust Oxidation Resistance:** Maintains oil integrity in oxygen-rich settings, extending maintenance intervals.
- **Corrosion Protection:** Shields steel, brass, and yellow metals from rust in harsh, corrosive environments.
- **Excellent Water Resistance:** Resists foam and emulsions, ensuring reliable lubrication in wet conditions.
- **Adhesive Formulation:** Reduces splatter for consistent lubrication and cleaner operations.
- **Broad Compatibility:** Protects diverse materials (steel, brass, Kevlar, rubber) for versatile equipment use.
- **Friction Reduction:** Lowers frictional losses, enhancing energy efficiency and reducing heat.
- **Versatile Applications:** Ideal for gearboxes, pumps, and hydraulic systems in oil and gas, mining, construction, and marine operations.
- **Cost-Efficient:** Prolongs equipment life, reduces maintenance costs, and optimizes operational efficiency.

**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.


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 ULTIMATE PROTECTION FOR THE LONG HAUL

**TECHNICAL DATA/TECHNICAL PROPERTIES**

PROPERTIES	ISO Viscosity Grade					
	100	150	220	320	460	680
Viscosity @ 40 °C, cSt	100	150	220	320	460	680
Pour Point, °C(°F)	-28 (-18)	-25 (-13)	-18 (0)	-12 (10.4)	-12 (10.4)	-12 (10.4)
Flash Point, °C(°F)	>220 (428)	>220 (428)	>220 (428)	>220 (428)	>220 (428)	>220 (428)
Demulsibility @ 54 °C	Pass	Pass	Pass	Pass	Pass	Pass
FOAM Sequence II	Pass	Pass	Pass	Pass	Pass	Pass
Copper Corrosion, 3 hr at 100 C	1B	1B	1B	1B	1B	1B
Steel Corrosion, ASTM 665 A & B	Pass	Pass	Pass	Pass	Pass	Pass
4-Ball EP Weld Load, kg	250	250	250	250	250	250
Product Code	LLEGO-100	LLEGO-150	LLEGO-220	LLEGO-320	LLEGO-460	LLEGO-680

\*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.

Lubchem Specialties, LLC

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