

**DESCRIPTION**

**Longlife Elite EP Gear Oil** is a full synthetic lubricant designed for extra heavy-duty service in a wide variety of extreme pressure situations in industrial applications. It is formulated with high quality synthetic oils and is compounded with select additives for excellent anti-wear, anti-oxidation, corrosion inhibition and extreme pressure properties. It helps reduce oil thickening and sludge formation, while increasing service life of machinery.

**Longlife Elite EP Gear Oil** has excellent solution and thermal stability to protect against premature failure and provide a long service life.

**APPLICATIONS**

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

- **Industrial enclosed gearing:** Spur, helical, bevel, herringbone, and steel-on-steel worm gears under heavy/shock loads in gearboxes and drives.
- **Heavy-duty equipment:** Enclosed drives in conveyors, agitators, mixers, extruders, presses, pulpers, pumps, fans, dryers, and similar high-torque/shock-loaded machinery.
- **Plain and rolling-element bearings:** High-load bearings in splash/circulating systems needing EP protection against wear, micro pitting, scoring, and fatigue.
- **Severe-service sectors:** Mining, cement, steel, pulp & paper, power generation, material handling, and heavy manufacturing requiring extended life and sludge/oxidation resistance.

**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)	-36 (-28)	-36 (-28)	-33 (-28)	-27 (-16.6)	-27 (-16.6)	-27 (-16.6)
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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