

ELM 80W-90 Multi-Purpose Gear Lubricant

Part Number: ILO-100

Biodegradable – Biobased Gear Lubricant



DESCRIPTION ELM 80W90 Multi-Purpose Gear Lubricant is a premium quality biodegradable gear lubricant formulated with the best optimized Biotechbased™ USA-grown natural seed oil that surpasses the lubricity of most conventional oils. It protects against wear, has a high flash point for safety and is readily biodegradable.

BIOBASED *BIODEGRADABLE AND NON – BIO – ACCUMULATIVE.* Based on evaluation of the base oils and the finished products, the ELM biobased products are designed to be biodegradable, aquatically non-toxic, not- bioaccumulative, and with no impact on plants as determined by known test methods. Nevertheless, the use of all of ELM products are subject to the local ordinances and ultimate responsibility for impact remains with the users.

- APPLICATIONS**
- Specifically formulated to meet the demanding applications of gears and drives where heavy loads and high torque are present
 - Suited for use where an API GL-5 performance level is specified
 - For use where industrial gear oils are specified

- BENEFITS**
- Superior lubricity protects gears from wear
 - Protects ferrous metal components from rust and corrosion
 - Designed to handle both sliding and rolling loads
 - Reduces vibration and noise
 - Mostly benign when released into the environment
 - Meets USDA’s proposed biobased product definition for EO 13101
 - Meets EPA’s Environmental Preferable Purchasing (EPP) criteria
 - Made from renewable USA-grown crop-based oils
 - Meets State of Iowa Senate File 2249 Purchasing Preference for Biobased Lubricants

PERFORMANCE LEVELS ■ Designed to provide the wear performance requirements of API GL-5

TYPICAL PROPERTIES	SAE Viscosity Grade	80W-90
	Viscosity at 40°C (cSt)	80-90
	Viscosity at 100°C (cSt)	17
	Viscosity Index	213
	Flash Point, °C (°F)	200 (392) to 210 (410)
	Pour Point, °C (°F)	-30 (-22) to -35 (-31)
	Four Ball Wear (ASTM D 4172, Scar Diameter)	0.39 mm
	Weld Load (ASTM D 2596)	500 kg
	Base Oil Biodegradability – OECD 301	Pass
	Base Oil Aquatic Toxicity – OECD 202	Non-toxic
	Base Oil Plant Toxicity - OECD 208	Non-toxic

PACKAGING

5 Gal. Pails
 55 Gal. Drums
 275 Gal. Totes

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