



"Heat won't break it. Cold won't stop it."

MicroLube Titan 720 Gear Oil is a premium industrial lubricant designed for superior protection and performance in enclosed gear systems. Engineered with advanced base oils, high-performance additives, and proprietary polymer technology, it delivers exceptional adhesion, heat stability, and adaptive viscosity control for the most demanding operating conditions.

Exceptional Gear-Climbing & Adhesion

MicroLube Gear Oil is engineered with advanced adhesion technology that allows it to cling to gear teeth and surfaces even under extreme operating conditions. This high tenacity ensures the lubricant remains in place along the entire gear train, forming a persistent protective film that resists being displaced by centrifugal force, splash, or wiping.

Unlike conventional gear oils that drain or migrate away, leaving metal surfaces exposed to wear and oxidation, MicroLube Gear Oil Titan 720 maintains a continuous lubricating barrier. This lasting film not only prevents metal-to-metal contact but also minimizes corrosion risk, extending the service life of both the oil and the equipment.

Adaptive Viscosity Control Technology

MicroLube Titan 720 incorporates billions of ultra-responsive polymer structures that act like microscopic temperature regulators within the lubricant. These intelligent polymers automatically adjust to temperature changes – expanding slightly in high heat to counteract thinning, and contracting in low temperatures to reduce thickening.

This self-compensating action ensures the lubricant maintains a stable viscosity across a wide operating range, delivering consistent film strength, predictable flow, and reliable lubrication in both hot and cold conditions. As a result, MicroLube Titan 720l offers uniform performance, reducing fluid drag, wear, and the risk of metal-to-metal contact, even during extreme temperature swings.

Fiber-Reinforced Lub Film & Heat Stability

MicroLube Gear Oil contains a unique fiber-like structure within its lubricating matrix, enabling the oil to hold together and provide a cushioning effect between moving gear surfaces. This reinforcement allows the lubricant to resist being thrown off or broken down under high-impact or shock-load conditions.

Its specialized additive package delivers exceptional thermal stability, ensuring the oil maintains its viscosity and protective properties even in the extreme heat often encountered in Middle Eastern operating environments. Where ordinary gear oils tend to thin and lose effectiveness at high temperatures, MicroLube Gear Oil remains stable, preserving film strength and protecting critical components over prolonged service intervals.

Applications.

- Enclosed industrial gearboxes – spur, helical, bevel, and worm gears
- Heavy-duty mining and construction machinery
- Marine propulsion systems and deck machinery
- Wind turbine gear drives
- Steel mills, paper mills.
- Cement plants
- Aggregate and quarry operations
- Agriculture machinery
- Forest and lumber industry
- Power generation and hydroelectric plants

Key Benefits

- Provides extended service intervals for manual transmissions, industrial gearboxes, gear reducers, gear-driven final drives, PTOs, and differentials.
- Formulated with advanced polymers to maintain optimal viscosity and thermal stability under high operating temperatures.
- High-adhesion, anti-wear technology minimizes metal-to-metal contact during start-up.
- Excellent foam control helps maintain lower operating temperatures.
- Fast, efficient water separation for simplified drainage and maintenance.
- Contributes to improved fuel efficiency and lowers energy usage
- Exceptional resistance to deposit formation, varnish, corrosion, sludge, and rust.

Exceeds

- API GL 6,
- US STEEL 224
- CINCINNATI MILACRON,
- Milacron • Clark MS-8
- White Motors MS00 16
- John Deere J11D
- Ford M2C 105A, M2C 108C, M2C 154A

Superior Water Resistance

MicroLub Titan 720 is engineered to resist water washout and contamination. It repels condensation, humidity, and direct water contact, maintaining full lubricity and film strength in wet or outdoor environments.

Typical Properties

Property	Test Method	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460
Viscosity @ 40°C (cSt)	ASTM D445	155	224	329	470
Viscosity @ 100°C (cSt)	ASTM D445	16	21	26	32
Viscosity Index	ASTM D2270	110	110	112	116
Pour Point (°C)	ASTM D97	-29	-29	-29	-29
Flash Point (°C)	ASTM D92	> 260	>260	>260	>260
AGMA Grade	DIN 51354	4EP	5EP	6EP	7EP
Density	kg/l	0.908	0.912	0.912	0.914

Storage Instructions

- Store in a cool, dry, and well-ventilated area, away from direct sunlight, heat sources, and open flames.
- Keep containers tightly sealed when not in use to prevent contamination with dust, water, or other foreign materials.
- Do not store near oxidizing agents, strong acids, or alkalis.
- Recommended storage temperature: 5°C to 40°C (41°F to 104°F).
- Protect from freezing and excessive heat; avoid prolonged exposure above 50°C (122°F).
- Rotate stock on a first-in, first-out (FIFO) basis to ensure product quality and shelf life.
- Shelf life: 36 months in unopened original packaging under recommended storage conditions.