

Bio-SynXtra™ 80W90 GL-5 LS Gear Lubricant

Biobased Limited Slip Gear Lubricant for Differentials, Transmissions, and Transfer Cases

Bio-SynXtra™ 80W90 GL-5 LS Gear Lubricant is a high-performance, biobased lubricant designed to meet or exceed SAE J306 and SAE J2360 requirements for manual transmissions, heavy equipment, differentials—including limited slip (LS) units—and transfer cases. Formulated with Stabilized™ and synthetic base oils, this gear lubricant provides superior extreme pressure (EP) protection, high film strength, and excellent low-temperature performance, while being environmentally responsible and inherently biodegradable.

Benefits

- Meets API GL-3, GL-4, GL-5, GL-6, and MT-1 performance classifications
- Super high viscosity index for wide operating temperature performance
- Fortified with antiwear, antioxidant, rust, and foam inhibitors
- Excellent demulsibility and cold flow characteristics
- High film strength for enhanced protection and gear longevity
- Inherently biodegradable and energy conserving
- Compatible with hydrocarbon and synthetic PAO-based gear oils
- Exceeds U.S. Steel and AGMA EP/antiwear industrial standards

Application / New Filling

Recommended for:

- Manual transmissions, transfer cases, and differentials (including limited slip)
- Spiral bevel, worm, and hypoid gears
- Heavy-duty on-road, off-road, and industrial applications
- Top-off and full replacement in conventional and synthetic gear systems

Specifications and Approvals

- SAE J306 / SAE J2360
- API GL-3, GL-4, GL-5, GL-6, MT-1
- Exceeds U.S. Steel and AGMA antiwear and EP specifications
- Patented Stabilized™ HOBS Technology
- U.S. Patents: 6,383,992 and 6,534,454
- Additional foreign and pending patents

Typical Specifications

SAE Gear Grade	80W90
Specific Gravity @60°F (D-287)	0.92
VISCOSITIES:	
@100°C., cSt. (D-445)	18.4
@40°C., cSt. (D-445)	111
Viscosity Index (D-2270)	185
Viscosity, Brookfield cP @ -26°C	90,000
Flash Point, COC, °C (D-92)	260
+Pour Point, °C (D-97)	-36
Copper Corrosion Strip 3 hr @ 100°C (D-130)	1B
4 Ball Wear, 1h, 167°F, 1200 RPM, 40kg (D-4172)	.30
FZG Test (DIN 51517)	>12
Demulsibility (D-2711)	Pass
Foam Sequence I, II, III (D-892)	Pass
Rust Prevention (D-665 A&B)	Pass