

ECOSE® SYNTHETIC HYPOID GEAR LUBRICANTS

ECOSE® Synthetic Hypoid Gear Lubricants are synthetic, heavy duty, extreme pressure gear and bearing lubricants designed for use in limited slip and conventional differentials, manual transmission, transfer cases of cars, trucks, farm equipment and construction equipment. They are formulated using synthetic base stock, which has very high viscosity index and exceptionally low pour point. The high and low temperature performance of these products exceeds those of conventional hypoid gear lubricants and offers exceptional protection over a wide range of operating temperatures.

FEATURES AND BENEFITS:

These lubricants contain extreme pressure additives, as well as rust, oxidation, and corrosion inhibitors to protect gears and bearings operating under a wide variety of load conditions. These products promote longer gear life and better operating economy. **ECOSE® Synthetic Hypoid Gear Lubricants** offer the following advantages over conventional mineral-based gear fluids:

- Extended drains; with manufacturers recommendation, highly oxidation resistance
- Suitable for use in limited slip differentials
- Superior low-temperature performance and all season lubrication
- Improved fuel mileage, result of synthetic stock rheology
- Excellent demulsibility-separates water readily and shear stability
- Non-foaming

ECOSE® Synthetic Hypoid Gear Lubricants are recommended for applications where heat and wear present major problems. These applications include manual transmissions where hypoid type lubricants are recommended, differentials including limited slip, and transfer cases for heavy equipment, trucks, tractors, and industrial gear drives. These synthetic gear oils provide performance features that make them suitable for use in the following:

- API Service Classification GL-5 and MT-1
- Mack GO-J (all grades)
- Dana SHAES-256 rev.C, SHAES-234
- Meets MAN 342 Type M2, Type M3 (75W-90)
- Eaton Axle Division PS-037, PS-163, PS-109 (75W-90)
- SAE J2360; former U.S. Military Specification MIL-PRF-2105E
- Meritor Automotive 0-76 E/N (75W-90), 0-76B, 0-80 (80W140)

SELECTION:

ECOSE® Synthetic Hypoid Gear Lubricants are available in three viscosity grades, SAE 75W-90, SAE 75W-140, and SAE 80W-140 as noted in the chart below. Follow equipment manufacturer recommendations for appropriate viscosity grades.

AVAILABILITY:

ECOSE® Synthetic Hypoid Gear Lubricants are available throughout Nu-Tier Brands’ marketing area. Your Nu-Tier representative can provide specific information. Need additional information? Call Nu-Tier Brands @1-877-771-LUBE (5823) or visit Nu-tierbrands.com.

Typical Properties

SAE Grade	Test Method	75W-90	75W-140	80W-140
Product Code		537201	537202	537203
Viscosity, cSt @ 40°C	ASTM D-445	96.5	180.2	219.8
Viscosity, cSt @ 100°C	ASTM D-445	16.2	25.0	27.3
Brookfield cP at Temp	ASTM D-2983	95,000@-40°C	135,000@-40°C	75,000@-26°C
Viscosity Index		180	172	160
Channel Point, °C		<-45.0	<-45.0	NR
Foam Test	ASTM D-892	Pass	Pass	Pass
Copper Corrosion	ASTM D-130	Pass	Pass	Pass
Thermal Heat Test, 149°C		Pass	Pass	Pass
Demulsibility	ASTM D-1401	Pass	Pass	Pass
Timken OK Load		50	85	85
FZG Scuffing Test, stages	ASTM D-5182	12	12	12
API Service		GL-5/MT-1	GL-5/MT-1	GL-5/MT-1
Pour Point	ASTM D-97	-45°F	-36°F	-30°F