

PRODUCT INFORMATION

ECOSE[®] PREMIUM LS GEAR LUBRICANT

ECOSE[®] Premium LS Gear Lubricant is formulated with high-quality base oils and a premium additive system designed for maximum performance where extreme pressure performance is needed to protect gears (particularly hypoid gears) from scuffing and wear. The advanced frictional properties provide the necessary lubrication required for most “positive traction” or “limited slip” type differentials.

ECOSE[®] Premium LS Gear Lubricant provides superior thermal stability which minimizes oxidative sludge and varnish formations in the most severe operating conditions. These gear oils are formulated with “**next generation**” extreme pressure, anti-wear, and limited slip additives that will meet the new manufacturer performance requirements for component cleanliness, seal compatibility and improved copper corrosion resistance.

FEATURES AND PERFORMANCE:

- Outstanding thermal stability to minimize sludge and varnish formation
- Limited slip differentials for complete fill or top-off
- Non-corrosive properties
- Excellent load-carrying capacity for protection against gear scuffing and wear
- Wide temperature range for all season application in most climates

APPLICATION:

ECOSE[®] Premium LS Gear Lubricant is recommended for conventional differentials as well as initial, top-off and complete refill of limited-slip differentials in passenger cars, light duty and heavy duty trucks. These gear oils meet the requirements of most manufacturers for differentials and non-synchronized manual transmissions where the manufacturer specifies API GL-5 or MT-1 gear oil.

- Exceeds requirements and is recommended for API Gear Service GL-5 or MT-1 gear oil
- Meets Mack Trucks GO-J Gear Oil performance
- Where Mil-PRF-2105E is specified, and SAE J2360
- Meritor (Rockwell) O-76A (SAE 85W-140), O-76D (SAE 80W-90)
- Meets MAN 342 Type M2 (SAE 80W-90), MAN 342 Type M1 (85W-140)
- SAE 80W-90 grade for use at ambient temperatures down to -15°F
- SAE 85W-140 grade for use at ambient temperatures down to +10°F

AVAILABILITY:

ECOSE[®] Premium LS Gear Lubricant is available throughout Nu-Tier Brand’s 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.

ECOSE® Premium LS Gear Lubricant**Typical Properties**

SAE Grade		80W-90	85W-140
Product Code	Test Method	532110	532115
Viscosity, cSt @ 40°C	ASTM D-445	140	368
Viscosity, cSt @ 100°C	ASTM D-445	14.2	27.0
Viscosity, SUS @ 100°F	ASTM D-2161	733	2,010
Viscosity, SUS @ 210°F	ASTM D-2161	78.3	132
Brookfield Viscosity, cP @ -12.1°C	ASTM D-2983	-	68,000
Brookfield Viscosity, cP @ -26.1°C	ASTM D-2983	120,000	-
Viscosity Index	ASTM D-2270	99	95
Pour Point, °F (°C) (max)	ASTM D-5949	-20 (-27)	5 (-15)
Flash Point, °F (°C)	ASTM D-92	450 (232)	478 (248)
API Gravity	ASTM D-4052	27.6	26.5
Density, lbs/gal (g/L)	Calculated	7.42 (889)	7.47 (896)
API Service		GL-5 / MT-1	GL-5 / MT-1
Foam Test	ASTM D-892	Pass	Pass
Channel Point, °C No-Channeling @		-35°C	-20°C
Copper Corrosion	ASTM D-130	Pass, 1B	Pass, 1B

*Note: Always follow equipment manufacturer recommendation for appropriate viscosity grade.