

Ultra Gearlub Automotive Gear Oils

Ultra Gearlub are premium multi-grade automotive gear oils which provide excellent year-round performance in all conditions, especially the severe Canadian winter temperatures. **Ultra Gearlub** are designed to meet or exceed the current performance standards: API MT-1, API GL-5, MIL-PRF-2105E and Mack GO-J.

Applications

Ultra Gearlub oils are designed for service in most manual transmissions, differentials, power take-off units and final drives in a wide variety of heavily loaded on-highway and off-highway vehicles. They are also designed to provide excellent performance in the drive-train of passenger vehicles. **Ultra Gearlub** oils are recommended for the lubrication of hypoid, spur, bevel, helical, spiral-bevel, and worm gears in differentials, transmissions, final drives, transfer cases, and steering mechanisms. They are formulated from a blend of premium base stocks, a shear resistant viscosity index improver and a thermally stable, sulphur-phosphorous additive which provides the extra measure of protection required under high speed/low torque, low speed/high torque, and high speed/shock load conditions.

Ultra Gearlub 80W-90 is a premier multi-purpose, all-season, multi-grade gear oil designed to meet or exceed the lubricant requirements of the Original Equipment Manufacturers' (OEM) specifications for equipment operating under today's increased loads and temperatures. **Ultra Gearlub** 75W-90 SS oil is a blend of premium base stocks and Poly Alpha-Olefin (PAO) synthetic fluid specifically designed and recommended for low temperatures of the Canadian winter (Arctic type service), in accordance with the manufacturers' viscosity recommendations. **Ultra Gearlub** 85W-140 is recommended for high temperature heavy-duty applications typically associated with off-highway equipment. **Ultra Gearlub** oils may also be used for certain industrial gear reducer applications where the manufacturer specifies

API GL-4 and GL-5 quality products. For a fully synthetic automotive gear lubricant, refer to the Ultramar Synthetic 75W-90 & Emgard 80W-140 Automotive Gear Technical Data Sheets.

Ultra Gearlub must not be used in:

- *automatic transmissions*
- *powershift transmissions*
- *hydrostatic drives and systems that include the lubrication of wet clutches and brakes*
- *manual transaxles on front wheel drive vehicles; where the manufacturer specifies an automotive transmission fluid or engine oil (refer to owners manual for exact lubricant requirement)*
- *manual transmissions which require that a single viscosity grade engine oil be used.*

Performance benefits

- **Superior Thermal and Oxidation Stability - Ultra Gearlub** oils provide superior resistance to lubricant breakdown (decomposition) caused by high operating temperatures. This outstanding thermal and oxidation stability eliminates the build-up of sludge, varnish, and formation of hard carbon deposits on gear and oil-seal surfaces. This action minimizes wear, increases service life, and reduces maintenance costs.
- **Superior Load Carrying Ability** - the sulphur-phosphorous extreme pressure additive package provides outstanding, long lasting protection against scuffing, spalling, and minimizes wear under severe operating conditions. This results in longer equipment life and reduced maintenance costs.
- **Superior Spalling Protection - Ultra Gearlub** exceeds the Mack Gear Oil Spalling test requirement for Mack GO-J. This specification was developed to determine the oil's ability to prevent tooth surface failures occurring in heavily loaded off-highway applications.

- **Outstanding Heavy Duty Transmission Performance** - in severe Mack T-200 series transmission testing, **Ultra Gearlub** surpassed the standards for Mack GO-J oils for resisting carbon deposit formation in the clutch mechanism of synchromesh transmissions.
- **Excellent Rust and Corrosion Protection** - special additive technology protects against rust and corrosion which can result from exposure to humidity and varying ambient temperature.

- **Low Anti-Foam Tendency** - the oils utilize anti-foam additives to reduce foam and froth build-up which could affect film strength and possibly result in damage to the gear surfaces.
- **Compatibility** - **Ultra Gearlub** oils are compatible with most competitive automotive gear oils containing an EP additive package. They are also compatible with all seal material commonly found in drive-train service

Typical Properties

Properties	75W-90 SS	80W-90	85W-140
Density @ 15 °C, kg/l	0.8870	0.8872	0.9007
Flash Point, °C	195	218	200
Pour Point, °C	-42	-27	-12
Viscosity Index	195	110	103
Viscosity cSt @ 40 °C cSt @ 100 °C	109.6 19.2	138.6 14.8	411.0 27.9
Brookfield Viscosity cp @ - 12 °C cp @ - 26 °C cp @ - 40 °C	- - 123,000	- 136,000 -	78,000 - -
Operating Range, °C	-40 to 35	-26 to 35	-16 to 40

The values quoted are typical of normal production and do not constitute a specification.

Package Availability

Package	75W-90 SS	80W-90	85W-140
205-L Drum		•	•
60-L Keg	•	•	•
20-L Pail	•	•	•
4-L Jug		•	

Due to the continuing research and development, the information contained herein is subject to change without notification.