



Product Data Sheet

UltraSyn 75W-90 Gear Oil Synthetic Automotive Gear Oil

DESCRIPTION

UltraSyn 75W-90 is manufactured from synthesized high viscosity index base oils. The specialized extreme pressure (EP) gear lubricant additive package provides a heavy duty, extreme pressure, API GL-5 axle lubricant. The oxidation and corrosion inhibitors help it protect gears and bearings operated under a wide variety of load conditions. Lubricants made with these synthetic base stocks are shear stable and retain their viscosity/temperature characteristics even under the severe mechanical shearing encountered in hypoid and other automotive gears. UltraSyn 75W-90 provides improved cleanliness of high-temperature components and seal protection as well as the low-temperature fluidity required for the operation of automotive equipment in arctic winter conditions.

Advantages

- High Film Strength - Gives high ratings in Timken and FZG tests
- Oxidation Stability - Resists oxidation created by the churning and heating in the presence of air encountered in all gear cases
- Rust Protection - Provides a protective film on metal surfaces, thus minimizing rust and corrosion
- Viscosity/Temperature Properties - Provides better low temperature fluidity protection than mineral oil based multi-grade gear oils, along with effective lubricating film thickness at higher temperatures

Applications

- Nemco UltraSyn 75W-90 lubricant is recommended for year-round lubrication of automotive gear drives, including subzero conditions and where operations require lubricants with relatively high viscosity and excellent load-carrying ability. It is suitable for topping-off or refilling differentials, final drives, transfer cases, and other gear applications where lubricants meeting MIL-PRE-2105E, API Service GL-5, or the multipurpose and mild extreme pressure types are recommended. It is also suitable for use in manual transmissions where the normal lubricant recommendation is for a Mack GO-H/S, Mack GO-J, API MT-1 or proposed PG-2 performance product.
- In addition, since Nemco UltraSyn 75W-90 synthetic lubricants performs well in all gear drives, including heavily loaded hypoid gears and worm gears, it is recommended for equipment such as winch reduction gears and crawler vehicle propulsion gear drives that are exposed to subzero temperatures.



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Meets and/or exceeds

- API GL-5
- API MT-1
- MIL-L-2105E, SAE J2360
- MACK GO-J

Notes

UltraSyn 75W-90 is NOT recommended for use in automatic transmissions, powershift transmissions, hydrostatic drives and systems that include the lubrication of wet clutches and brakes.

Typical Characteristics – UltraSyn 75W-90

SAE Grade	75W-90
Viscosity, Kin at 40°C, cSt Viscosity, Kin at 100°C, cSt	107 14.6
Viscosity Index	147
Viscosity, Brookfield, -40°C, cP (for 75W gear oils)	125,000
Flash Point, °C (°F)	204 (400)
Pour Point, °C (°F)	<-42 (<-44)

Physical characteristics shown in the table are typical and may vary slightly.