



## Product Data Sheet

### SynGear 75W-90 & 80W-140 Synthetic Automotive Gear Lubricants

#### DESCRIPTION

Nemco SynGear Lubricants are 100% full synthetic based automotive gear oils available in two viscosity grades; SAE 75W-90 and 80W-140. They are manufactured from synthesized hydrocarbon base oils and an extreme pressure (EP) gear lubricant additive package. The synthesized hydrocarbons are similar to conventional petroleum oils and are fully compatible with them. They also provide better thermal and oxidation stability, higher inherent viscosity indexes, extremely low pour points, and improved low-temperature fluidity. Lubricants made from these synthetic base stocks are shear stable and retain these viscosity temperature characteristics even under the severe mechanical shearing encountered in hypoid and other automotive gears. They provide improved cleanliness of high temperature components and seal protection at the levels specified and required in API GL-5, Mack GO-H/S, Mack GO-J, API MT-1 and proposed PG-2 quality levels.

#### Advantages

- Proven Fuel Economy – SynGear 75W-90 has demonstrated over 1% improvement over other gear lubricants, when used in conjunction with a full synthetic SAE 50 oil in the manual transmission, and up to 3% improvement over conventional SAE 90 and 85W-140 mineral gear lubricants.
- All Weather Protection – Outstanding oil pumpability at cold temperatures for quicker lubrication and less gear resistance while maintaining a heavy lubrication film at high operating temperatures.
- Meets OEM Extended Drain Warranties – OEMs such as Eaton, Meritor/Rockwell and Dana allow for extended warranty coverage (up to 750,000 miles) and longer oil drain intervals (up to 500,000 miles) when using SynGear oils.

#### Applications

- Nemco SynGear synthetic lubricants are 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. They are 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. They are 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 SynGear synthetic lubricants are excellent for all gear drives, including heavily loaded hypoid gears and worm gears, they are recommended for equipment such as winch reduction gears and crawler vehicle propulsion gear drives that are exposed to subzero temperatures. Nemco SynGear 75W-90 and 80W-140 are fully approved Eaton Roadranger quality lubricants. They are designed for drive axles covered by the Eaton Roadranger Extended Warranties of 750,000 miles, with oil drains of 500,000 miles. They are also approved for extended warranties and drains in Rockwell axles.



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## Meets and/or exceeds

SynGear 75W-90	SynGear 80W-140
TSCA, CERCLA Approvals: · API Service Classifications GL-5 and MT-1 · MIL-PRF-2105E/SAE 2360 · ArvinMeritor O76-N · Dana Corporation, SHAES 256 Rev C & 429 Rev A · International TMS 6816 · Mack Truck GO-J Plus	TSCA, CERCLA Approvals: · API Service Classifications GL-5 and MT-1 · Dana Corporation SHAES 429 · Mack Truck GO-J · International TMS 6816 · SAE J2360/MIL-PRF-2105E · Arvin Meritor O-76-B (petroleum) O-80 (synthetic)

## Notes

Nemco SynGear lubricants are NOT recommended for use in automatic transmissions, powershift transmissions, hydrostatic drives and systems that include the lubrication of wet clutches and brakes.

## Typical Characteristics – SynGear 75W-90 and 80W-140

SAE Grade	75W-90	80W-140
<b>Viscosity</b> cSt @ 40°C cSt @ 100°C	103 15.0	284 30.6
Viscosity, Brookfield at -40°C, cP (for 75W gear oils) Viscosity, Brookfield at -26°C, cP (for 80W gear oils)	90,000 n/a	n/a 75,000
<b>Viscosity Index</b>	152	146
<b>Pour Point, °C (°F)</b>	<-45 (<-49)	<-40 (<-40)
<b>Flash Point, °C (°F)</b>	215 (420)	202 (395)
<b>Eaton Roadranger Extended Warranties</b>	Yes	Yes
<b>Eaton PS163 Extended Drain Performance (500kms)</b>	Yes	Yes

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