



## Product Data Sheet

### MultiGear GL-5 Oils Automotive Gear Oils

#### DESCRIPTION

Nemco MultiGear lubricants are formulated using the latest sulphur/phosphorus additive technology. This extreme pressure (EP) additive system protects against metal-to-metal contact of the gears even under the most severe conditions. Nemco MultiGear lubricant applications include passenger cars, trucks, farm tractors, earthmoving, construction, mining and other heavy duty equipment. Nemco MultiGear lubricants are blended to meet SAE multi-grade viscosity requirements and are available as 75W-80, 80W-90 and 85W-140 grades.

#### Features & Benefits

- Reduced wear – Superior extreme pressure (EP) properties reduce wear in heavily loaded gear sets
- Oxidation Stability - Resists sludging and oxidation created by the churning and heating in the presence of air encountered in all gear cases
- Rust and Corrosion Protection - Provides a protective film on metal surfaces thus minimizing rust and corrosion
- Viscosity/Temperature Properties – Multi-grade properties provide better low temperature fluidity protection than single grade oils, along with effective lubricating film thickness at higher temperatures
- Limited Slip Capability - Provides adequate protection to lubricate limited slip differentials when used as make-up or service fill

#### Application

- Nemco MultiGear lubricants are recommended for use in bevel, spiral bevel and hypoid gear type automotive differentials (either single or double reduction) and in power dividers where the lubricant manufacturers specify MIL-PRF-2105E, MAN 342 Type M-1 or API GL-5 lubricants. This product is also approved for use in Mack differential power divider axles.
- Nemco MultiGear oils are applicable to all types of cars, drive shafts, front and rear axles, construction machinery drive axles and transmission gear parts lubrication, especially in vehicles with hypoid gear lubrication, can adapt to high speed/low torque, low speed/high torque or high-speed/shock load applications.

**Meets and/or exceeds**

- API GL-5
- U.S. Military Specification MIL-PRF-2105D
- MAN 342 Type M-1
- Mack GO-H
- Eaton, Rockwell, Meritor

**Note**

Nemco MultiGear 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 – MultiGear GL-5 Gear Oils**

SAE Grade	75W-80	80W-90	85W-140
Viscosity @ 40°C, cSt @ 100°C, cSt	45 7.9	144 14.3	378 27.5
Viscosity Index	125	97	95
Viscosity, Brookfield at -12°C, cP (for 85W oils)	n/a	n/a	75,500
Viscosity, Brookfield at -26°C, cP (for 80W oils)	n/a	140,500	n/a
Viscosity, Brookfield at -40°C, cP (for 75W oils)	138,000	n/a	n/a
Pour Point, °C (°F)	-40 (-40)	-29 (-20)	-15 (+5)
Flash Point, °C (°F)	162	207	216
Copper corrosion, 3 hrs at 121°C	1B	1B	1B
Foaming sequence 1, mL	5	5	5
Foaming sequence 2, mL	10	10	10
Foaming sequence 3, mL	5	5	5
Timken OK load, lbs	70	65	60
Four ball EP test, weld load (kg)	400	400	400
FZG gear wear test, stages passed	12	12	12

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