

# CITGO CITGEAR® SYNTHETIC HD GEAR LUBRICANTS



Date 08/13

**DESCRIPTION:** CITGO CITGEAR Synthetic HD Gear Lubricants are state-of-the-art heavy duty, synthetic gear and bearing lubricants designed for use in manual transmission, transfer cases and differentials of passenger cars, trucks, farm tractors, construction equipment and over-the-road trucks. CITGO CITGEAR Synthetic HD Gear Lubricants are formulated using a proprietary combination of synthetic base stocks and additives. This unique combination of components offers the maximum protection for gears and bearings over a wide range of operating temperatures.

**QUALITIES:**

- Superior oxidation resistance for extended drain intervals.
- Excellent load carrying properties (SAE 75W-90, 75W-140 and 80W-140) for maximum protection.
- High viscosity index and low pour point synthetic base stocks provide reduced friction resulting in fuel economy potential during low temperature startups or operation conditions.
- Excellent demulsibility
- Shear resistant
- Hydrolytically stable
- Non-foaming

**APPLICATIONS:** CITGO CITGEAR Synthetic HD Gear Lubricants (SAE 75W-90, 75W-140 and 80W-140) are recommended for differentials (including limited slip units), manual transmission for which hypoid-type lubricants are required and transfer cases for heavy equipment – found in trucks, tractors, industrial gear drives, automobiles and farm machinery. These products meet or exceed the following performance requirements:

- U.S. Military Specification Mil-L-2105D & MIL-PRF-2105E
- API Service Classification GL-5 and MT-1
- Eaton Axle Division PS-037, PS-163, PS-109 (75W-90), Shaes-256, Shaes 234
- General Electric D-50E9C
- Harnishfeger (P&H) 474
- Mack Truck GO-H/S
- Mack GO-J Plus (SAE 75W-90)
- Mack GO-J (SAE 75W-90, 75W-140, 80W-140)
- Meritor Automotive (formerly Rockwell International) 0-76-E / N (SAE 75W-90)  
0-76-B, 0-80 (SAE 80W-140)
- Ford M2C192A (SAE 75W-140)
- GM 12346140 (SAE 75W-140)
- Chrysler MS-8985 (SAE 75W-140)
- Dana

CITGO CITGEAR Synthetic HD Gear Lubricant SAE 50 is recommended for heavy-duty service in manual transmissions for which the manufacturer normally recommends either engine oils or GL-1 to GL-4 lubricants. This product contains antiwear, rust, oxidation, foam and corrosion inhibitors to protect bearings and synchronizers and to promote longer transmission life. As in the other products in this series, CITGO CITGEAR Synthetic HD Gear Lubricant SAE 50 provides improved start-up, easier shifting and less gear wear in low temperature environments. Less friction, less drag and improved oxidation resistance combine to provide fuel economy benefits and longer drain intervals.

(Continued)

CITGO CITGEAR® SYNTHETIC  
HD GEAR LUBRICANTS

Date 08/13 - (Continued)

**APPLICATIONS:** This product is recommended in applications calling for the following specifications:

API GL-4, MT-1  
 MAN 341 SL  
 Eaton Roadranger Extended Drain (E500) PS 164/O-81  
 Mack TO-A  
 ArvinMeritor Extended Drain O-81  
 Rockwell International O-80 (former)  
 Meritor ZF Freedom Line  
 Volvo STD 97305  
 International TMS 6816

**TYPICAL PROPERTIES:**

## CITGO CITGEAR® SYNTHETIC HD GEAR LUBRICANTS

SAE Grade	75W-90	75W-140	80W-140	50
Material Code	632496001	632497001	632498001	632495001
Specific Gravity	0.865	0.869	0.877	0.857
Density, lb/gal	7.20	7.23	7.30	7.14
Viscosity, ASTM D 445, cSt at 40°C	126	185	289	168
cSt at 100°C	16.7	25.8	29.4	20.1
Viscosity Index, ASTM D 2270	144	171	138	139
Brookfield Viscosity, ASTM D 2983, cP at -26°C	—	—	72,300	28,800
cP at -40°C	114,500	137,500	—	—
Pour Point, ASTM D 97, °F (°C)	-65 (-54)	-60 (-51)	-49 (-45)	-60 (-51)
Flash Point, ASTM D 92, °F (°C)	378 (192)	370 (188)	381 (194)	507 (264)
Foam Test, ASTM D 892	Pass	Pass	Pass	Pass
Copper Corrosion, ASTM D 130	1A	1A	1A	1A
FZG, Failure Stage	>12	>12	>12	NA

**NA** = Not Applicable