



## CITGO PREMIUM GEAR OILS (MP)

Date 07/15

**DESCRIPTION:** CITGO Premium Gear Oils (MP) are multipurpose gear lubricants whose high performance level is obtained by using a sulfur-phosphorus additive system. The selected additives impart extreme pressure properties to protect automotive gears which may be operated under the most severe service conditions encountered in passenger cars, trucks, farm tractors, earth moving, construction and other heavy-duty equipment. These additives specifically impart antiweld, antiscaff and antiwear properties necessary in heavy-duty service gear lubricants.

API Service Classification: GL-5 and MT-1;

SAE J2360 pending

**QUALITIES:** CITGO Premium Gear Oils (MP) are blended to meet the multigrade viscosity requirements described in SAE J306 viscosity recommended practice. These gear lubricants are formulated with naturally high VI, highly refined base oils and do not require viscosity index improvers to meet multigrade viscometric properties. These lubricants maintain their viscometric properties throughout their useful life and will not lose viscosity through shear.

Viscosity Grades Available:

SAE 80W-90 grade for use at ambient temperatures down to -15°F.

SAE 85W-140 grade for use at ambient temperatures down to +10°F.

Equipment manufacturers' recommendations should be followed when the gear lubricant is subject to high ambient temperatures. While some gear sets are designed for year-round operation using an SAE 80W-90, others may require SAE 85W-140 for high ambient temperature operations during the hot weather months.

CITGO Premium Gear Oils (MP) exceed the severe gear performance requirements of Military Specifications SAE J2360, as well as former MIL-PRF-2105E and MIL-L-2105D. They are designated for API Service Classification GL-5 and MT-1.

CITGO Premium Gear Oils (MP) meet Mack Trucks GO-J Specification.

**APPLICATIONS:** CITGO Premium Gear Oils (MP) are recommended for the following applications:

- Where a "multipurpose" gear oil or one meeting the requirements of SAE J2360, API Service GL-5 and/or MT-1 is required.
- In transmissions, differentials, final drives and other gear cases of trucks, buses and farm equipment where extreme pressure (EP), hypoid or multipurpose gear oils are specified by the manufacturer.

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## TYPICAL PROPERTIES:

CITGO PREMIUM GEAR OILS (MP)		
SAE Grade	80W-90	85W-140
Material Code	631310001	631320001
Gravity, ASTM D 4052, °API	27	26
Density, lb/gal at 60°F	7.4	7.5
Flash Point, ASTM D 92, °F (°C)	448 (231)	478 (248)
Viscosity, ASTM D 445, cSt at 40°C	139	365
cSt at 100°C	14.7	26.9
ASTM D 2161, SUS at 100°F	788	2010
SUS at 210°F	78.4	133
Brookfield Viscosity, ASTM D 2983		
cP at -26.1°C	120,000	—
cP at -12°C	—	65,000
Viscosity Index, ASTM D 2270	99	97
Pour Point, ASTM D 97, °F (°C)	-27 (-33)	0 (-18)
Channel Point, °F (°C), Max.	-31 (-35)	-4 (-20)
Foam Test, ASTM D 892	Pass	Pass
Copper Corrosion, ASTM D 130	Pass	Pass

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