



Previous Name: Multi-purpose 4096 80W-90

# ***Pennzoil Gearplus 80W-90 GL-5***

*Sure Protection For Vehicles Under A Broad Range Of Conditions*

## **TECHNICAL DATA SHEET**

PENNZOIL® GEARPLUS® SAE 80W-90 GL-5 GEAR LUBRICANT, formerly known as Multi-purpose 4096 80W-90, exceeds the latest requirements of gear manufacturers requiring API GL-5 lubricants. It is recommended for use in limited slip and conventional differentials of cars, pick up trucks and sports utility vehicles. It is designed to reduce or eliminate "chatter" that can sometimes occur in limited slip differentials. High-speed shock loads, higher torque requirements for extended periods of time and high operating temperatures call for heavy-duty quality lubricants of this caliber.

PENNZOIL® GEARPLUS® SAE 80W-90 GL-5 GEAR LUBRICANT is fortified with extreme pressure additives for tough protection under severe operating conditions. It contains rust and corrosion inhibitors to protect against the effects of moisture from condensation. Effective foam inhibitors prevent foaming and aeration that can lead to premature wear. PENNZOIL® GEARPLUS® SAE 80W-90 GL-5 GEAR LUBRICANT is a fully balanced, robust formulation for optimum axles and transmission protection.

PENNZOIL® GEARPLUS® SAE 80W-90 GL-5 gives the full protection of SAE 90 under high temperatures and hard driving conditions, while still providing the fast flow characteristics of SAE 80W when cold. This offers maximum lubrication and gear protection over a wide temperature range.

## **PERFORMANCE, FEATURES & BENEFITS**

- Exceeds requirements of API GL-5
- Outstanding gear and bearing protection
- Suitable for all limited slip applications
- Combats rust and corrosion
- Inhibits oil oxidation
- Provides outstanding anti-foam protection
- Compatible with other gear oils under a wide range of operating and storage conditions

## **MAIN APPLICATIONS**

PENNZOIL® GEARPLUS® SAE 80W-90 GL-5 is fully formulated for all limited slip differentials. It may be used as a makeup or refill fluid, even for rebuilt limited slip units and is designed for all high performance hypoid axles of cars, pick up trucks, sports utility vehicles as well as sports, police and racing cars. It is also recommended for conventional differentials.

## **SPECIFICATIONS, APPROVALS & RECOMMENDATIONS**

PENNZOIL® GEARPLUS® SAE 80W-90 GL-5 is recommended for use in hypoid or spiral bevel gear differentials and manual transmissions where an API Service GL-5 lubricant and an SAE 80W, 90 or 80W-90 viscosity grade is specified.

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Help Desk.

To find the right Pennzoil product for your vehicles and equipment, please consult [www.pennzoil.com](http://www.pennzoil.com) to look up the right motor oil recommendation using our oil selector.

## TYPICAL PHYSICAL CHARACTERISTICS

Properties			Method	Pennzoil Gearplus 80W-90 GL-5
SAE Grade				80W-90
API Service Category				GL-5
Gravity		°API	ASTM D287	26
Kinematic Viscosity	@40°C	cSt	ASTM D2161 & D445	150
Kinematic Viscosity	@100°C	cSt	ASTM D2161 & D445	14.5
Kinematic Viscosity	@100°F	SUS	ASTM D2161 & D445	700
Kinematic Viscosity	@210°F	SUS	ASTM D2161 & D445	76
Viscosity Index				95
Brookfield Viscosity	@-26°C(-15°F)	@150000 cP	ASTM D2983	<130 000
Pour Point			ASTM D97	-26(-15)
Flash Point			ASTM D92	204(400)
Color			ASTM D1500	5
Timken OK Load			ASTM D2782	70
Material Number	12/1 Quart			4963
Material Number	35 Pound Plastic Pail			4964
Material Number	120 Pound Drum			4965
Material Number	400 Pound Drum			4966

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

### HEALTH, SAFETY & ENVIRONMENT

#### • Health and Safety

Pennzoil Gearplus 80W-90 GL-5 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet (MSDS), which can be obtained from [www.epc.shell.com](http://www.epc.shell.com)

#### • Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

### ADDITIONAL INFORMATION

#### • Advice

Advice on applications not covered here may be obtained from your Shell or Shell Lubricants distributor representatives or technical help desks.