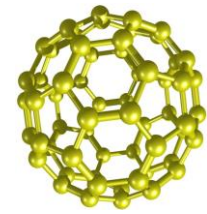




# High Performance Gear Oils API GL-4



Fortified With  
**C60 Fullerenes**  
Technology

## **BARDAHL High Performance Gear Oils (API GL-4)**

- SAE 90
- SAE 140

### **PRODUCT DESCRIPTION**

Bardahl Gear Oils (GL-4) are formulated with naturally high VI (viscosity index) paraffinic base stocks and sulphur-phosphorus additive system. These gear oils impart excellent oxidation stability characteristics and effective anti-weld, antiwear and anti-scuff properties. In addition, Bardahl Polar Plus technology with fullerenes provides enhanced protection to the gear systems.

### **C60 Fullerenes Technology**

Bardahl C60 Fullerene technology uses fullerene molecules to reduce friction and wear in engines. Fullerene molecules create a protective layer of hard particles on engine surfaces and prevent direct surface-to-surface contact. Being spherical in shape, C60 Fullerene molecules act as nano ball bearings, allowing surfaces to glide over one another with minimal friction and wear.

### **Advantages**

- High performance multipurpose gear lubricant
- Protects gears and bearings from wear at extreme pressures, and outstanding anti-wear protection
- Formulated to be compatible with “yellow metals” such as bronze found in synchronizers  
And other transmission components
- High temperature stability
- Inhibits foaming and aeration

### **Performance Standards**

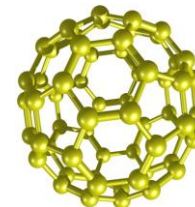
API GL-4

### **Applications**

- Suitable for the majority of automotive hypoid and spiral-bevel gear applications under high-speed/low torque or low speed/high torque in moderately severe load conditions.
- Designed for non-transmission gear boxes and steering boxes.
- Designed for applications requiring an API GL-4 specification.



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## Typical Properties

SAE GRADE	GL-4 SAE 90	GL-4 SAE 140
Appearance	Clear	Dark
Density, kg/litre@15°C	0.862	0.910
Kinematic Viscosity, mm <sup>2</sup> /s@40°C	186.0	456.0
Kinematic Viscosity, mm <sup>2</sup> /s@100°C	16.8	30.1
Viscosity Index	96	95
Pour Point, °C	-18	-12
Flash Point COC, °C	226	250