

VAPRO HYPOID GEAR SAE 90

GL-5

HIGH PERFORMANCE AXLE OIL

DESCRIPTION

VAPRO HYPOID GEAR SAE 90 is manufactured from highly refined base oils and field-proven performance additives. These gear oil offers excellent chemical and thermal stability over a wide temperature range and optimum protection against wear and shock loads in transmissions and axles.

It is designed to provide excellent gear protection. It exceeds the latest requirements of gear and transmission manufacturers requiring API GL-5. The API GL-5 designation covers hypoid gears in passenger cars and light duty trucks as well as heavy-duty trucks operating under high-speed/shock-load, high-speed/ low-torque and low-speed/high-torque conditions.

VAPRO HYPOID GEAR SAE 90 is fortified with additives to prevent rust and corrosion. It is blended with anti-foam to prevent wear caused by lubricant foaming and aeration. VAPRO HYPOID GEAR SAE 90 is compatible with seals and gaskets in automotive and truck components. This lubricant further provides excellent low-temperature protection in the pinion-drive bearing channel.

APPLICATION

VAPRO HYPOID GEAR SAE 90 is recommended for use in differentials and manual transmissions in passenger cars and light trucks, as well as axles of heavy duty trucks and off-road equipment. Severe conditions in construction and off-road operations can drive axle oil temperatures over 300°F. It provides gear and bearing protection even under these severely stressed conditions. It should be noted that when operating in such severe conditions, proper drain intervals are especially critical.

PERFORMANCE FEATURES AND BENEFITS

- Proven gear protection in low and high speed conditions.
- Reduces costs associated with seasonal oil changes.
- Easier low-temperature starting.
- Excellent performance in severe service.

SPECIFICATIONS AND APPROVALS

- Mercedes Benz Sheet : 235.6
- MAN: 342 Type M2
- ZF TE-ML: 05A, 07A, 16C, 17B, 19B, 21A
- API Service Classification : GL-5
- US Military MIL-L-2105D

TYPICAL PHYSICAL CHARACTERISTICS

VAPRO HYPOID GEAR	Method	SAE 90
SAE Viscosity Grade	SAE	90
Density @ 15°C kg/l	ASTM D 1298	0.90
Kinematic viscosity @ 40°C cSt @ 100°C cSt	ASTM D 445	169 16.8
Viscosity Index	ASTM D 2270	105
Flash Point °C	ASTM D 92	218
Pour Point °C	ASTM D 97	-30

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