



GEAR HD/GL-4



DESCRIPTION

GEAR HD/GL-4 is a series of premium quality multipurpose gear lubricants fortified with mild pressure additives. They are designed for use in gear units including spur, helical and bevel types. They can be used in manual synchromesh gearboxes, transmissions and axles operating under moderate loads and pressure conditions. They contain multi-functional additives required for moderate pressure conditions.

APPLICATIONS

GEAR HD/GL-4 lubricants are suitable for the lubrication of passenger cars' and commercial vehicles' manual gearboxes operating under high speed/low torque and low speed/high torque conditions. They can also be used for the lubrication of hypoid gear units operating under normal conditions. Suitable for rear axles under conditions of medium severity, such as light duty commercial vehicles and passenger cars. They are not suitable for heavy duty hypoid axles.

CHARACTERISTICS-BENEFITS

CHARACTERISTICS	BENEFITS
Superior anticorrosion and antiwear properties.	Retention of the lubricating film under high loads; protection against scoring.
Resistance to lubricant oxidation at high temperatures.	Long service life; reduced maintenance costs.
Resistant to foaming corrosion.	Smooth shiftability.
Low temperature fluidity ensuring adequate supply of lubricant to critical components in cold start-up conditions.	Effective performance at low and high temperatures.

PHYSICAL-CHEMICAL CHARACTERISTICS

GEAR HD/GL-4	METHOD	SAE 80W	SAE 90	SAE 80W-90	SAE 140	SAE 250
Density at 15°C, g/cm ³	ASTM D1298	0.88	0,889	0,894	0.892	0.888
Viscosity, Kinematic (cSt) 40°C	ASTM D445	83.0	151,0	144,0	25,3	43,5
Viscosity, Kinematic (cSt) 100°C	ASTM D445	10,0	15,0	14,8	341	733
Viscosity index	ASTM D2270	99	99	102	97	100
Flash point, COC, °C	ASTM D92	238	240	230	264	270
Pour point, °C	ASTM D97	-30	-24	-27	-18	-12

The above mentioned characteristics represent mean values.

SPECIFICATIONS

API GL-4; U.S. MIL-L-2105; MAN 341; ZF TE-ML 02A, 08A, 17A