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TECHNICAL PRODUCT SHEET

MAX GEAR HD/GL-4

80W, 80W—90, 90, 140, 250

DESCRIPTION

MAX GEAR HD/GL-4 is a range of premium-quality, multipurpose gear lubricants formulated with mild extreme-pressure (EP) additive technology. They are designed for use in spur, helical, and bevel gear units, as well as manual synchromesh gearboxes, transmissions, and axles operating under moderate load and pressure conditions. The formulation incorporates multi-functional additives that provide reliable protection, smooth operation, and durability in applications requiring API GL-4 performance.

APPLICATIONS

MAX GEAR HD/GL-4 lubricants are suitable for the lubrication of manual gearboxes in passenger cars and commercial vehicles operating under high-speed/low-torque as well as low-speed/high-torque conditions. They may also be used in hypoid gear units operating under normal service conditions and are suitable for rear axles under medium-severity operating conditions, such as those found in passenger cars and light-duty commercial vehicles. They are not recommended for heavy-duty hypoid axles operating under severe load conditions.

SPECIFICATIONS

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

PROPERTIES

MAX GEAR HD/GL-4 series provides superior protection against corrosion and wear, ensuring long-term durability of critical components. The formulation offers high resistance to oxidation at elevated temperatures and is highly resistant to foaming, maintaining stable lubrication performance. Excellent low-temperature fluidity ensures rapid lubricant circulation and reliable protection during cold start-up conditions.

BENEFITS

MAX GEAR HD/GL-4 series ensures reliable retention of the lubricating film under high loads, providing effective protection against scoring. The formulation supports long service life and contributes to reduced maintenance costs, while delivering smooth and precise shift performance. It maintains effective lubrication at both low and high operating temperatures, ensuring consistent performance across a wide temperature range.

LPC S.A. 124 Megaridos Ave., Aspropyrgos
19300, Greece (+30) 210 80 93 900

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PHYSICAL-CHEMICAL CHARACTERISTICS

MAX GEAR HD/GL-4	METHOD	SAE 80W	SAE 80W-90	SAE 90	SAE 140	SAE 250
Density at 15°C, g/cm^3	ASTM D4052	0.880	0.894	0.889	0.892	0.888
Viscosity, Kinematic (cSt) 40°C	ASTM D445	83.0	144.0	151.0	341.0	733.0
Viscosity, Kinematic (cSt) 100°C	ASTM D445	10.0	14.8	15.0	25.3	43.5
Viscosity index	ASTM D2270	99	102	99	97	100
Flash point, COC, °C	ASTM D92	238	230	240	264	270
Pour point, °C	ASTM D97	-30	-27	-24	-18	-12

The above mentioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.

HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).

USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

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