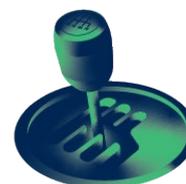


TECHNICAL PRODUCT SHEET

ECO R² GEAR HD/GL-4 80W—90



DESCRIPTION

ECO R2 GEAR HD/GL-4 is a premium-quality, environmentally responsible gear lubricant formulated with high-quality re-refined base oils (RBOs) and carefully balanced additive technology. It is designed for manual transmissions, gearboxes, and moderately loaded axles requiring API GL-4 performance. By combining reliable drivetrain protection with a lower environmental impact, ECO R2 GEAR HD/GL-4 supports sustainability and circular-economy objectives without compromising operational performance.

APPLICATIONS

ECO R2 GEAR HD/GL-4 is suitable for manual synchromesh gearboxes, transmissions, and gear units in passenger cars, light- and medium-duty commercial vehicles, and selected off-highway equipment operating under moderate load and pressure conditions. It may also be used in hypoid gear units and rear axles where API GL-4 lubricants are specified by the manufacturer. The product is not recommended for heavy-duty hypoid axles or applications requiring API GL-5 performance.

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

ECO R2 GEAR HD/GL-4 is formulated with re-refined base oils of high viscosity index, provides excellent oxidation resistance, thermal stability, and foam control, ensuring consistent lubrication over extended service periods. The additive system delivers effective anti-wear and anticorrosion protection, while maintaining controlled friction characteristics compatible with synchromesh materials. Its stable viscosity-temperature behavior ensures reliable lubrication across a wide operating temperature range and compatibility with conventional sealing materials.

BENEFITS

ECO R2 GEAR HD/GL-4 ensures smooth and precise gear shifting, contributing to improved drivability and operator comfort. It provides effective wear and corrosion protection, helping to extend component service life and reduce maintenance costs. The formulation resists oil thickening and deposit formation, supporting longer oil drain intervals under normal service conditions. At the same time, the use of re-refined base oils delivers a reduced carbon footprint, making it an ideal choice for fleets and operators seeking both technical reliability and environmental responsibility.



TECHNICAL PRODUCT SHEET

PHYSICAL-CHEMICAL CHARACTERISTICS

ECO R2 GEAR HD/GL-4	METHOD	SAE 80W-90
Density at 15°C, g/cm ³	ASTM D4052	0.892
Viscosity, Kinematic (cSt) 40°C	ASTM D445	135.4
Viscosity, Kinematic (cSt) 100°C	ASTM D445	14.8
Viscosity index	ASTM D2270	110
Flash point, COC, °C	ASTM D92	230
Pour point, °C	ASTM D97	-27

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.

