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TECHNICAL PRODUCT SHEET

ECO R² GEAR EP/GL-5 80W—90

DESCRIPTION

ECO R2 GEAR EP/GL-5 is a premium-quality, environmentally responsible gear lubricant formulated with re-refined base oils (RBOs) and advanced additive technology. It is designed for use in hypoid differentials, drive axles, and gear units operating under severe mechanical and thermal stresses. By combining API GL-5 performance with a significantly reduced carbon footprint, ECO R2 GEAR EP/GL-5 delivers reliable protection and high performance while supporting sustainability and circular-economy objectives.

APPLICATIONS

ECO R2 GEAR EP/GL-5 is suitable for hypoid gears, final drives, transmission axles, and steering systems of passenger cars, trucks, buses, and off-highway or construction equipment, where an API GL-5 lubricant is specified by the manufacturer. It performs reliably under high load, high speed, and shock-load conditions, providing dependable lubrication in demanding service environments. The product is intended for applications not requiring limited-slip friction modifiers unless otherwise stated by the OEM.

SPECIFICATIONS

API	GL-5	Military	MIL-L-2105D
ZF	TE-ML 05A	ZF	TE-ML 16B
ZF	TE-ML 07A	ZF	TE-ML 17B
ZF	TE-ML 12E		

PROPERTIES

ECO R2 GEAR EP/GL-5 is formulated with high-quality re-refined base oils and sulfur-phosphorus extreme-pressure (EP) additive technology, ensuring strong load-carrying capability and effective gear protection. It offers excellent resistance to oxidation, thermal degradation, foaming, and corrosion, maintaining lubricant integrity at elevated operating temperatures. Its stable viscosity-temperature behavior ensures consistent lubricating film strength and compatibility with conventional seal materials, even under extended service intervals.

BENEFITS

ECO R2 GEAR EP/GL-5 provides effective protection against wear, pitting, and scoring, even under severe load and shock conditions, contributing to extended component service life. Its excellent thermal and oxidative stability helps minimize deposit and sludge formation, supporting long oil drain intervals and reduced maintenance costs. The lubricant offers reliable performance across a wide temperature range, including improved cold-flow characteristics, while enabling a lower environmental impact through the use of re-refined base oils and a reduced carbon footprint compared with conventional products.

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PHYSICAL-CHEMICAL CHARACTERISTICS

ECO R2 GEAR EP/GL-5	METHOD	SAE 80W-90
Density at 15°C, g/cm^3	ASTM D4052	0.890
Viscosity, Kinematic (cSt) 40°C	ASTM D445	127.6
Viscosity, Kinematic (cSt) 100°C	ASTM D445	14.2
Viscosity index	ASTM D2270	110
Flash point, COC, °C	ASTM D92	220
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.