

TECHNICAL PRODUCT SHEET

PRO GEAR LS/4X4

80W—90, 80W—140



DESCRIPTION

PRO GEAR LS/4X4 is a series of high-quality synthetic axle oils specifically designed for limited-slip (LSD) differentials used in trucks, buses, and other heavy-duty vehicles. Formulated with extreme-pressure (EP) additives to provide superior protection against gear wear under high loads and incorporating a dedicated friction modifier to ensure smooth and efficient operation of the differential clutch plates.

APPLICATIONS

PRO GEAR LS/4X4 are suitable for the lubrication of limited-slip (LSD) differentials operating under severe conditions of high loads and high rotational speeds. Also suitable for hypoid differentials and drive axles operating under extremely heavy-duty conditions where a lubricant meeting API GL-5 performance level is required. Not suitable for differentials equipped with wet brakes. Highly recommended for equipment operating in extremely low-temperature environments, ensuring reliable lubrication and performance during cold starts.

SPECIFICATIONS

API	GL-5	ZF	TE-ML 05C
Military	MIL-L-2105D	ZF	TE-ML 16E
		ZF	TE-ML 21C

PROPERTIES

PRO GEAR LS/4X4 series is formulated with synthetic-technology base oils offering excellent shear stability, the lubricants ensure reliable viscosity retention under high mechanical stress. They provide effective protection against corrosion and rust of metallic components, while maintaining controlled and long-lasting friction characteristics for consistent differential performance. The formulation delivers high resistance to foam formation, ensuring uninterrupted lubrication, and features advanced extreme-pressure properties combined with outstanding thermal stability, even under severe operating conditions.

BENEFITS

PRO GEAR LS/4X4 series contributes to reduced operating temperatures and increased drivetrain efficiency, promoting a longer service life of the differential. They ensure smooth differential operation and excellent control of transmitted power, even under severe loading conditions. A stable and durable lubricating film is always maintained to guarantee reliable protection of critical components, while offering excellent wear resistance and enabling extended oil drain intervals.



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PHYSICAL-CHEMICAL CHARACTERISTICS

PRO GEAR LS/4X4	METHOD	SAE 80W-90	SAE 80W-140
Density at 15°C, g/cm ³	ASTM D4052	0.869	0.879
Viscosity, Kinematic (cSt) 40°C	ASTM D445	109.7	186.0
Viscosity, Kinematic (cSt) 100°C	ASTM D445	15.6	27.7
Viscosity index	ASTM D2270	150	189
Flash point, COC, °C	ASTM D92	198	208
Pour point, °C	ASTM D97	-30	-36
Brookfield -26°C, cP	ASTM D2983	65,300	102,600

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.

