

Automotive lubricants. Axles and Differentials.

Driveline EP 80W-90/85W-140



Key information

- Mineral lubricant formulated for the lubrication of manual transmissions and automotive gears, where extreme pressure (EP), good fluidity at low temperatures and a viscosity allowing high-load support and shock impact are required.

> Quality standards

- API GL-5
- MIL-L-2105 D (SAE 80W-90)
- NATO O-226 (SAE 80W-90)

> Manufacturer specifications

SAE 80W-90	SAE 85W-140
• MAN 342 M2 • ZF TE-ML 05A/12E/16B/17B/19B/21A (ZF 000084) • Iveco 18-1805 • Volvo 97310 (STD 1273.1)	• ZF TE-ML 05A/12S/16D/21A (ZF 000085) • Volvo 97310 (STD 1273.1)

> SAE 80W-90 Product utilization

- In synchronized manual gearboxes.
- In differentials, bridges, and final controls.
- In passenger cars and medium vehicles (vans, SUVs).

> SAE 85W-140 Product utilization

- Manual gearboxes in trucks, buses, and public works machines.
- Differentials, bridges, and final controls in heavy equipment.
- Recommended for differentials and hypoid gears of industrial vehicles and high-load applications.

> SAE 80W-90 Product performance

- Thanks to its excellent fluidity at low temperatures, it reduces friction, thereby minimizing metal wear.
- Its multigrade properties improve the operation of synchronizers, extending their service life.
- High load-carrying capacity (EP), even under conditions where gears are subjected to severe shocks.
- Excellent protection against rust and corrosion, ensuring a long service life without mechanical problems.
- These oils allow operation over a wider temperature range than monograde EP oils.

The values of typical characteristics listed in the table are average values provided for informational purposes only and do not constitute a guarantee. These values are subject to change without notice.

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> SAE 85W-140 Product performance

- High extreme-pressure (EP) properties, protecting metal surfaces from wear.
- Viscosity adapted to shock-loading conditions, greater lubricant film tenacity, and longer trouble-free transmission life.
- Adequate flow at low temperatures, allowing for use across a wide temperature range and improving friction performance.
- High resistance to oxidation allows for use at high temperatures without risk of oil degradation.
- These oils allow operation over a wider temperature range than monograde EP oils.

> Physical and chemical properties

Characteristic	Units	Method	Driveline EP	
SAE Grade	-	-	80W-90	85W-140
Density at 15°C	kg/l	ASTM D 4052	0.899	0.909
Viscosity at 100°C	cSt	ASTM D 445	14.8	24.5
Viscosity at 40°C	cSt	ASTM D 445	141	322
Viscosity index	-	ASTM D 2270	105	97
Brookfield viscosity -12°C	cP	ASTM D 2983	-	<150000
Brookfield viscosity -26°C	cP	ASTM D 2983	148000	-
Pour Point	°C	ASTM D 5950	-30	-12
Flash Point	°C	ASTM D 92	215	216

> Health & safety and environment

A Material Safety Data Sheet providing information on product hazards, handling precautions, first aid measures, and relevant environmental data is available for this product as per applicable legislation.