



# TRANSMISSION AXLE 9 80W-90

Transmission Oil

## KEY DATA

**MULTIGRADE OIL FOR LIMITED SLIP  
DIFFERENTIAL, AXLE AND TRANSFER  
GEAR BOX**

**SAE 80W-90**

### INTERNATIONAL STANDARDS

- ✓ API GL-5
- ✓ API MT-1
- ✓ MIL-PRF-2105E

### MANUFACTURER APPROVALS

- ✓ MB-Approval 235.20
- ✓ MAN 342 type M3
- ✓ Scania STO 1:0
- ✓ ZF TE-ML 05A, 12L, 12M, 16B, 17B, 19B, 21A
- ✓ SAE J2360 (n°PRI GL 0660)

## APPLICATIONS

TOTAL TRANSMISSION AXLE 9 80W-90 is a very high performance mineral oil developed for axles and gears of commercial vehicles when API GL-5 and SAE J2360 levels are required.

TOTAL TRANSMISSION AXLE 9 80W-90 is particularly recommended for the lubrication of hypoid rear axles with very severe load.

TOTAL TRANSMISSION AXLE 9 80W-90 is specifically developed for Mercedes-Benz rear axles, especially for the HL6 axle where a lubricant with MB-Approval 235.20 is required.

TOTAL TRANSMISSION AXLE 9 80W-90 is suitable for the service fill of hypoid axles on commercial vehicles from MAN, DAF, Iveco, Volvo, Renault Trucks, with extended drain intervals of at least 240 000km and suitable and approved for the service fill of synchronized and non-synchronized Scania gearboxes

## CUSTOMER BENEFITS

- **Reduced cost of maintenance:** specially formulated to reach extended drain intervals recommended by the manufacturer.
- **Excellent protection of axles** against wear and corrosion due to extreme-pressure properties of oil.
- **Improved driver start up experience:** low temperature fluidity due to a high viscosity index, generating benefits during cold starts and limiting drag losses and fuel consumption.
- **Excellent stability in operation** due to high viscosity index
- **High compatibility with oil filters** due to antifoam properties

## CHARACTERISTICS\*

Test	Unit	Test method	Result
Volumetric mass at 15°C	kg/m <sup>3</sup>	DIN 51757 D	902
Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	140
Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	14.5
Viscosity index	-	ASTM D2270	101
Flash point	°C	ASTM D92	204
Pour point	°C	ASTM D97	-36

\* The characteristics given above are obtained with a standard tolerance threshold during production and may not be considered specifications.

## RECOMMENDATIONS FOR USE

Before using the product, the vehicle's maintenance guide should be checked. Oil changes should be carried out in accordance with the manufacturer's recommendations.

The product should not be stored at temperatures over 60°C. It should be kept away from sunlight, intense cold and extreme temperature fluctuations.

If possible, the packaging should not be exposed to the elements. Otherwise, the drums should be laid horizontally in order to avoid any contamination from water and to prevent the product's label from rubbing off.

## HEALTH, SAFETY AND THE ENVIRONMENT

Based on the toxicological information available, this product should not cause any adverse health effects, provided it is used for its intended purpose and in accordance with the recommendations laid out in the Safety Data Sheet. This can be obtained on request from your local reseller and is available for consultation at [www.quickfds.fr](http://www.quickfds.fr).

This product should not be used for any purposes other than the ones for which it is intended.

When disposing of the product after use, please protect the environment and comply with local regulations.