



# GEAR ZF

LUBRICANTS FOR GEARBOXES AND AXLES

## TRANSMISSION RANGE

GEARBOXES and AXLES  
MINERAL  
SAE 80W-90, 85W-90 et 85W-140

Mineral

Semi-synthetic

100% synthetic

## STANDARDS AND SPECIFICATIONS

API GL-5  
DAIMLER TRUCK DTFR 12B100  
ZF TE-ML 16B, 17B, 19B, 21A

Oxidation resistance



Shear stability



Extreme-pressure level



## APPLICATIONS

**GEAR ZF** is an extreme pressure oil, suitable for heavy duty gears, gearboxes and hypoid axles of industrial vehicles, public works and farming equipment, and particularly when a API GL5 level lubricant is required.

## BENEFITS

- Good anti-wear and Extreme Pressure properties
- Multigrade: very good lubrication at any temperature
- Compatibility with non-ferrous metals
- Good thermal stability
- Large resistance to oxidation
- Excellent anti-foam properties

## PERFORMANCE

### APPROVALS

Approval certificates available on request

ZF TE-ML 16B, 17B, 19B, 21A (ZF000343) (SAE grade 80W-90)  
DAIMLER TRUCK DTFR 12B100 (SAE grade 85W-90)

### PERFORMANCE LEVELS

API GL-5  
MIL-L2105 C, D (SAE grades 80W-90 and 85W-140)  
MAN 342-M1  
DTFR 12B100 (SAE grade 80W-90)  
MB 235.0 (SAE grades 80W-90 and 85W-90)  
Robert Bosch TE-ML 08  
Voith 132.00374400 (prec.3.325-339)  
VOLVO 97310 (SAE grade 85W-140)  
ZF TE-ML 07A

### EXPERIENCE IN OPERATIONAL USE

VOLVO 97316 (SAE grade 80W-90)  
DAF (or GL-5 is recommended)  
VOLKSWAGEN TL 727



## CHARACTERISTICS

CHARACTERISTICS	UNITS	METHODS	TYPICAL DATA		
			80W-90	85W-90	85W-140
SAE grade	-	-	80W-90	85W-90	85W-140
Density at 15°C	kg/m <sup>3</sup>	NF T 60101	887	907	914
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	NF T 60100	140,9	186	407.8
Kinematic viscosity at 100°C	mm <sup>2</sup> /s	NF T 60100	14,7	17,1	28.2
Viscosity index	-	NF T 60136	98	98	95
Brookfield viscosity at -26°C	mPa.s	NF T 60152	115 000	-	-
Brookfield viscosity at -12°C	mPa.s	NF T 60152	-	130 000	150 000
Pour point	°C	NF T 60105	-30	-24	-18
Flash point	°C	NF T 60118	204	220	222

The above data are provided on an indicative basis only.

## HEALTH, SAFETY AND ENVIRONMENT

Disposal must be carried out in compliance with the rules governing the disposal of used lubricants.

**Must be stored away from bad weather conditions.**

For further details, our Technical Department is available to assist you.