



**ORLEN**  
**OIL**

## ORLEN OIL GEAR LL 80W-90

### General features:

Mineral, multi-grade, top-quality gear oil with extended service life. Designed for use in manual transmissions and drive axles in motor vehicles. Perfect and careful selection of enriching additives provides excellent working of all drives, easy gear change, and high oil stability.

It guarantees:

- High mileages, up to 160 thousand,
- Perfect thermal and oxidative stability
- High gear cleanness,
- Protection against rust and corrosion,
- High loading transfer capacity
- Perfect lubricating and anti-wear qualities.

### Application:

Gear LL 80W-90 is an excellent gear oil for year-round operation in both passenger cars, vans, trucks and other utility motor vehicles operating in extreme conditions, i.e. at high stroke loads and high speeds, and also at high temperatures. Recommended for manual, both synchronized and non-synchronized transmissions and driving axles of motor vehicles. Can be successfully used in automatic transmissions in heavily loaded vehicles and buses, as well as in a wide range of other equipment/machinery, where the requirements of API GL-5 or GL-4 class have to be met. Recommended especially for driving axles of such manufacturers such as Renault, DAF, Iveco, and many others. Meets the requirements of API MT-1 classification concerning oils for non-synchronized manual transmissions.

### Viscosity grad:

SAE: 80W-90

### Quality class:

API: GL-4/GL-5

API: MT-1

### Standards, approvals, specifications

ZF TE-ML TE-ML 02B, 05A, 12L, 12M, 16B, 17H, 19B, 21A,

MAN 342 Typ M2

MAN 341 Typ Z2

Meets requirements:

MIL-PRF-2105E,

DTFR 12B100,

SCANIA STO 1:0,

RENAULT,

MACK GO-J

ZF TE-ML 07A, 08,

ArvinMeritor,

DAF,

IVECO



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#### Physical and chemical properties

Parameters	Units	Typical values
Viscosity class SAE	-	80W-90
Kinematic viscosity in temp. 100 °C	mm <sup>2</sup> /s	14,91
Viscosity index	-	98
Pour point	°C	- 33
Flash point	°C	230
<b>Note:</b> Physicochemical parameters listed in the table are typical values. Real values are stated in quality control certificates attached to each product lot.		

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