



## APPLICATIONS

**Eni Rotra MP 80W-90** is an E.P. (Extreme Pressure) gear oil recommended for hypoid gears operating under severe conditions, and for very highly loaded gears in general, especially those subjected to dynamic loads.

It is especially suited for axle drives with hypoid gears, which show very high loads, sliding contact and high temperatures.

It can also be used in the gearboxes on cars and trucks, and in gearboxes, axles, final drives and power take-offs on farm and earth-moving machinery, and in general for all gears trains for which the manufacturer recommends an API GL-5 performance.

It is also suitable for the lubrication of gearboxes in outboard engines and sterndrive systems.

## CUSTOMER ADVANTAGES

- Its superior E.P. additives ensure a continuous lubricant film even on gears operating under the most severe conditions, involving heavy dynamic and shock loads, and very high, or variable tooth sliding speeds.
- Its outstanding antiwear properties and its oiliness reduce markedly gear and bearing wear.
- **Eni Rotra MP 80W-90** shows a particularly good oxidation stability that prevents any deterioration even at high temperatures, and effectively limits viscosity increase and sludge formation.
- Its antirust properties effectively prevent rust on gears and in bearings, even in presence of moisture.
- Its antifoam qualities minimize the formation of air bubbles which could adversely affect the continuity of the lubricant film.

## SPECIFICATIONS

- API GL-5
- MIL L 2105 D
- MAN 342 type M1
- MAN 342 type M2 (Approved)





- ZF TE-ML 05A, 12E (Approved)
- ZF TE-ML 16B, 17B, 19B, 21A (Approved)
- ZF TE-ML 07A, 08

## CHARACTERISTICS

| Properties         | Method      | Unit               | Typical |
|--------------------|-------------|--------------------|---------|
| Density at 15°C    | ASTM D 4052 | kg/m <sup>3</sup>  | 905     |
| Viscosity at 100°C | ASTM D 445  | mm <sup>2</sup> /s | 15.5    |
| Viscosity at 40°C  | ASTM D 445  | mm <sup>2</sup> /s | 151     |
| Viscosity Index    | ASTM D 2270 | -                  | 105     |
| Viscosity at -26°C | ASTM D 2983 | mPa·s              | 145000  |
| Flash point COC    | ASTM D 92   | °C                 | 200     |
| Pour point         | ASTM D 5950 | °C                 | -30     |

