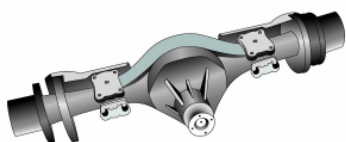


TRANSMISSION TM MULTIGRADE 80W-90



TOTAL

GEAR OIL

USES

- Oil specially adapted to very stringent requirements; when very high Extreme-Pressure and antiwear levels are aimed in high temperature conditions.
- Manual gear boxes, transfer boxes, rear axles and differentials when an oil API GL-5 is required.
- Passenger cars, light commercial, industrial vehicles and trucks.

PROPERTIES

- SAE 80W-90 super multigrade : **TOTAL TRANSMISSION TM MULTIGRADE** viscosity is especially low at cold temperatures which leads to a super SAE 80W (at -26°C its viscosity is 40 000 mPa.s to be compared with 150 000 mPa.s maxi for the 80W grade).
- Very high viscosity index providing an excellent lubrication and allowing easy gear changes at low temperatures as well as at high temperatures.
- Very high Extreme-Pressure properties.
- Exceptional stability in operation.
- Excellent resistance to oxidation.
- Excellent antiwear, antifoam, anticorrosion and antirust properties.

CHARACTERISTICS

TRANSMISSION TM MULTIGRADE	Units	Grade SAE 80W-90
Volumetric mass at 15°C	kg/m ³	891
Viscosity at 40°C	mm ² /s	117
Viscosity at 100°C	mm ² /s	15
Viscosity index	-	133
Flash point Cleveland	°C	204
Pour point	°C	-36
Volumetric mass at 15°C	kg/m ³	891

The typical characteristics mentioned represent mean values.

SPECIFICATIONS

API GL-5

TOTAL LUBRIFIANTS
562 avenue du Parc de L'île
92029 NANTERRE Cedex
France

TRANSMISSION TM MULTIGRADE
80W-90
AUGUST 2010
N° MPR 07/05



This lubricant, when used in accordance with our recommendations and for the application for which it is intended, does not constitute a special hazard. A safety data file conforming to the requirements of current EC legislation is available from your local trade consultant



GEAR LUBRICANT

USES

- Extreme-pressure lubricant for the lubrication of loaded gears for which an API GL-4 level of performance is required
- Suitable for all manual transmissions, transaxles, transferboxes and steering gears in automotive and agricultural equipments which require API GL-4 level of performance

PROPERTIES

- High Extreme-Pressure and antiwear performance guaranteed by a stable sulfur-phosphorous additivation
- Good anticorrosive and antirust properties for protection of ferrous and non-ferrous components
- Good thermal stability and anti-foaming properties

SPECIFICATIONS

API GL-4

CHARACTERISTICS

TRANSTEC 90, 80W-90, 85W-90, 140,85W-140	Units	SAE grade				
		90	80W-90	85W-90	140	85W-140
Density at 15 °C	kg/m ³	895	895	895	909	904
Kinematic Viscosity @ 40 °C	mm ² /s (cSt)	195	140	191	347	338
Kinematic Viscosity @ 100 °C	mm ² /s (cSt)	17.5	14.4	17.6	25	25.3
Viscosity Index	-	96	101	99	93	97
Flash point Cleveland	°C	225	216	232	239	244
Pour point	°C	-9	-27	-15	-6	-12

The typical characteristics mentioned represent mean values.