



## Castrol Manual EP 80W-90

Manual Transmission Fluid

### Description

Castrol Manual EP 80W-90 is a mineral based fluid suitable for use in applications where API GL-4 performance is required. Approved for use in ZF manual transmissions.

### Advantages

- High thermal stability protects against deposit formation and oil thickening maintaining the life and performance of lubricant and transmission.
- Good antiwear and load carrying characteristics extend the life of components.

### Typical Characteristics

Name	Method	Units	Manual EP 80W-90
Density @ 15C, Relative	ASTM D4052	g/ml	0.895
Appearance	Visual	-	Clear & Bright
Viscosity, Kinematic 40C	ASTM D445	mm <sup>2</sup> /s	135
Viscosity, Kinematic 100C	ASTM D445	mm <sup>2</sup> /s	14.0
Viscosity Index	ASTM D2270	None	100
Viscosity, Brookfield @ -26C	ASTM D2983	mPa.s (cP)	136000
Pour Point	ASTM D97	°C	-33
Flash Point, COC	DIN-ISO 2592	°C	230

### Product Performance Claims

API GL-4  
ZF TE-ML 02B, 17A  
MAN 341 Typ Z2

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