



## 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

## Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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