



Product Data

Castrol Manual EP 80W

Manual Transmission Fluid

Description

Castrol Manual EP 80W is a mineral based fluid suitable for use in applications where API GL-4 performance is required. Manual EP 80W is approved for use in MB transmissions used in light commercial vehicles and trucks and also 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
Density @ 15°C, Relative	ASTM D1298	g/ml	0.869
Viscosity, Kinematic 100°C	ASTM D445	mm ² /s	10.0
Viscosity, Kinematic 40°C	ASTM D445	mm ² /s	79
Viscosity Index	ASTM D2270	None	109
Viscosity, Brookfield @ -26°C (80W)	ASTM D2983	mPa.s (cP)	21500
Pour Point	ASTM D97	°C	-42
Flash Point, COC	ASTM D92	°C	199

Product Performance Claims

API GL-4
MB-Approval 235.14
DTFR 13B100 (MB 235.1)
ZF TE-ML 17A

Additional Information

Manual EP 80W is registered under the following ZF approval numbers: ZF004862

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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