



# Transmax Manual Z Long Life 75W-80

Manual Transmission Fluid

## Description

Castrol Transmax Manual Z Long Life 75W-80 is a full synthetic SAE 75W-80 fluid developed specifically to meet ZF extended drain intervals requirements (540.000 km) and is approved for use in all ZF commercial manual and automated manual transmissions. It can be recommended in other manual transmissions requiring API GL-4 and is particularly suitable for severe applications where loads and temperatures are higher.

## Advantages

- Excellent frictional characteristics with carbon, sinter bronze and molybdenum synchronisers provides improved shift quality and extends component life.
- Temperature reduction in operation extends the life of the oil and components aiding extended drain intervals and reducing downtime and repair costs.
- Provides excellent low temperature fluidity giving improved protection and smooth gear shifts at low temperatures.
- Excellent thermal and oxidative stability extends the life of transmission and lubricant extending drain intervals and reducing service needs.
- Excellent wear and EP performance provides protection to components under high loads extending component life ; reducing maintenance costs.

## Typical Characteristics

Name	Method	Units	Transmax Manual Z Long Life 75W-80
Density @ 15C	DIN EN ISO 12185	g/ml	0.847
Viscosity, Kinematic 100C	ASTM D445	mm <sup>2</sup> /s	9.0
Viscosity, Kinematic 40C	ASTM D445	mm <sup>2</sup> /s	53.9
Viscosity Index	ISO 2909	None	147
Viscosity, Brookfield @ -40C (75W)	DIN 51398	mPa.s (cP)	19000
Pour Point	DIN-ISO 3016	°C	-57
Phosphorus	DIN 51363 P. 2	% wt	0.055
Flash Point, COC	DIN-ISO 2592	°C	250

## Product Performance Claims

API GL-4  
MAN 341 Z5  
MB-Approval 235.41  
ZF TE-ML 01E, 02E, 16P

## Additional Information

Transmax Manual Z Long Life 75W-80 is registered under the following ZF approval number: ZF004761

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