



## 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 and reducing maintenance costs.

### Typical Characteristics

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

## Product Performance Claims

API GL-4  
MAN 341 Z5  
DTFR 13B160 (MB 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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Castrol New Zealand Limited  
Technical Advice Line 0800 10 40 60 Customer Service 0800 CASTROL (227 876)  
[www.castrol.co.nz](http://www.castrol.co.nz) [www.msds.castrol.co.nz](http://www.msds.castrol.co.nz)