



New Formula For Your Success.

ZF Transmission Fluids

for Commercial Vehicles.

				ZF-ECOFILUID X	ZF-POWERFLUID plus
Oil type	Hydrocrack transmission fluid	Fully synthetic transmission fluid	Fully synthetic transmission fluid	Axle drive fluid (GL-5)	Universal Oil for off-highway machinery
SAE Class	75W80	75W80	75W80	80W90	80W
Main area of application	CV manual transmissions and automatic transmissions (trucks, buses, light commercial vehicles, vans)	For all ZF-Ecomat and ZF Ecolife transmissions (up to max. 105°)	For all ZF-Ecolife transmissions	Axles for CVs and buses	Axles, transmissions and hydraulic systems for off-highway machinery
Advantages / Characteristics	<ul style="list-style-type: none"> ■ Tailor-made formulas for top-of-the-line requirements ■ Environmentally-friendly and cost-reducing thanks to long oil change intervals ■ Enhanced transmission service life time thanks to highly efficient additives and high shear stability ■ Worldwide availability: It is ZF genuine spare part to be obtained via the ZF Services Organization ■ Worldwide guaranteed and continuously monitored ZF premium quality 				
Special features	<ul style="list-style-type: none"> ■ Fuel savings up to 1% when compared to mineral oil thanks to reduction in friction and churning losses ■ Improved shift comfort thanks to optimum harmonization of viscosity and friction characteristics ■ Required for carbon synchronisation 	<ul style="list-style-type: none"> ■ Reduced downtimes ■ Increased shift comfort. ■ Lower maintenance costs ■ Flexible temperature behavior 	<ul style="list-style-type: none"> ■ Reduced downtimes ■ Increased shift comfort ■ Lower maintenance costs ■ Flexible temperature behavior 	<ul style="list-style-type: none"> ■ Optimum bearing and gearing protection with regard to wear and scuffing 	<ul style="list-style-type: none"> ■ Optimum scuffing load capacity ■ Very high wear protection level ■ Combines high level of transmission shift comfort with excellent brake behavior of the axles ■ Application in most climate zones due to further improved low temperature characteristics ■ Resource preserving production
Typical features					
Density at 15°C	858 kg/m ³	842 kg/m ³	841 kg/m ³	898 kg/m ³	872 kg/m ³
Viscosity at 40°C	54 mm ² /s	61 mm ² /s	55 mm ² /s	142 mm ² /s	68 mm ² /s
Viscosity at 100°C	9,3 mm ² /s	10,1 mm ² /s	9,5 mm ² /s	15,6 mm ² /s	9,1 mm ² /s
Brookfield viscosity	-40°C: 42.400 mPas	-40°C: 22.600 mPas	-40°C: 19.800 mPas	-26°C: 120.000 mPas	-30°C : 22.000 mPas
Pour point	-42°C	-51°C	<-60°C	-30°C	-38°C
Flash point	240°C	240°C	253°C	200°C	225°C
Scuffing load capacity					
FZG A/8.3/90	>12	>12	>12	>12	11
FZG A10/16.6R/90	10	–	–	>10	8
FZG S-A10/16.6R/90	–	–	–	>10	–
ZF List of Lubricants	01E, 02E, 16P	04D, 14E, 16N, 20E	16Q, 20 F	02B, 05A, 07A, 12E, 16B, 17B, 19B, 21A	03G, 05G, 06K, 17G, 21G
Other specifications	MAN 341 Typ Z-5	MAN 339 Typ Z-4	MAN Nr. 09.11003-0575	MAN 3343 Typ M	John Deere JDM J20C
Packaging sizes	<ul style="list-style-type: none"> ■ Can (20l) Item no.: 0671 090 384 ■ Barrel (208l) Item no.: 0671 090 385 ■ Container (as of 1.000l) Item no.: 0671 090 386 	<ul style="list-style-type: none"> ■ Can (20l) Item no.: 0671 072 120 ■ Barrel (209l) Item no.: 0671 072 130 ■ Container (as of 1.000l) Item no.: 0671 072 140 	<ul style="list-style-type: none"> ■ Can (20l) Item no.: 0671 700 270 ■ Barrel (209l) Item no.: 0671 700 280 ■ Container (as of 1.000l) Item no.: 0671 700 290 	<ul style="list-style-type: none"> ■ Can (20l) Item no.: 0681 000 412 ■ Barrel (205l) Item no.: 0681 000 411 ■ Container (as of 1.000l) Item no.: 0681 000 410 	<ul style="list-style-type: none"> ■ Can (20l) Ref: 0681 200 752 ■ Barrel (205l) Ref: 0681 200 751 ■ Container (as of 1.000l) Ref: 0681 200 750
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