



## AUTOMOTIVE TRANSMISSION OILS

# ADDINOL TRANSMISSION OIL GS 80 W, GS 80 W 90, GS 85 W 90, GS 85 W 140

### PRODUCT DESCRIPTION

ADDINOL Transmission oils GS consist of ageing resistant mineral oil raffinates with a selected phosphor-sulphur-additive-combination for an optimized synchronization behavior in transmission gear boxes.

### APPLICATION

- Very suitable for the lubrication von synchronised manual transmissions.
- Very suitable for moderately loaded bevel and hypoid gears with minor offset, and for special hypoid axles in older cars.
- Highly fit for steering gears and transfer cases in motor vehicles and work machines.

### DELIVERY

Delivery preferable in drums and small cans.

### SPECIFICATIONS / APPROVALS

Meet and exceed the international specifications of:

- API GL-4/ GL-3
- MIL-L-2105

Approved according to:

#### GS 80 W

- MB-approval 235.1
- ZF000630: ZF TE-ML 17A

#### GS 80 W 90

- ZF000701: ZF TE-ML 16A, 17A, 19A

Meet the requirements of:

#### GS 80 W

- MAN 341 Z2, MAN 341 E1
- ZF TE-ML 08

#### GS 80 W 90

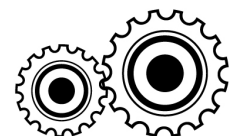
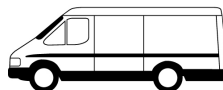
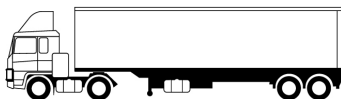
- ZF TE-ML 08
- IVECO 18-1807 (MG)

### CHARACTERISTICS

- High scuffing load capacity
- Good cold flow properties
- High ageing resistance
- High shear stability
- Reliable protection against corrosion
- Low foaming tendency
- Good compatibility with elastomers

### ADVANTAGES AND BENEFITS

- High load capacity of gear
- Very good switching and starting performance also in winter operation
- Long oil lifetime
- Reliable lubrication even under highest loads
- Excellent protection of gear components with low costs for maintenance and repairs
- Efficient lubrication also for transmissions which tend to foam formation
- Increased protection against leakages





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### SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test conditions / unit		GS 80W	GS 80W90	GS 85W90	GS 85W140	Method acc. to
Appearance			Clear, free from contaminations				visual
Approvals			MB 235.1 ZF000632: ZF TE-ML 17A	ZF000701: ZF TE-ML 16A, 17A, 19A			OEM- standards
SAE-grade	J 306		80W	80W-90	85W-90	85W-140	ASTM
API			GL-4 / GL-3		GL-4		Laboratory and engine tests acc. to ASTM and CEC
Density	at 15°C	kg/m <sup>3</sup>	880	882	899	905	DIN 51757
Viscosity	at 100°C	mm <sup>2</sup> /s	10,2	15,5	18,8	29,0	ASTM D 7042
Viscosity index			100	124	96	93	DIN ISO 2909
Apparent viscosity	at -26°C	mPa*s	max. 150.000		--		DIN 51398
	at -12°C	mPa*s	--		max. 150.000		
Flash point	COC	°C min.	225	230	230	230	DIN EN ISO 2592
Pour point		°C max.	-30	-35	-28	-20	ASTM D 7346

#### ADDINOL - The Experts for High-Performance Lubricants

We at ADDINOL develop and produce more than 600 high-performance lubricants of the new generation. Among these are automotive lubricants for highest demands and pioneering developments for industrial applications. Our customers all over the world benefit from the high and stable quality of our ADDINOL high-performance lubricants, our know-how and the individual customer advisory service of our competent experts. Our company has worldwide activities. ADDINOL high-performance lubricants are distributed by more than 90 international partners.

The data given in this product sheet represent our current level of knowledge and experience. Due to the various specific application they, however, do not discharge the user from his own examination. The information provided herein may not be used to derive a legally binding warranty of specific properties or the suitability for a certain purpose of application. Detailed security-concerning and toxicological data as well as security instructions for each product can be taken from the corresponding Material Safety Data Sheets (MSDS). High-performance lubricants from ADDINOL are under continuous development. Therefore, ADDINOL Lube Oil GmbH keeps the right to change technical data in this product data sheet without notification. In case of doubt, please do not hesitate to contact our customers' advisory service.