



# GEAR EP/GL-5



## DESCRIPTION

GEAR EP/GL-5 is a series of premium quality multipurpose gear lubricants fortified with extreme pressure (EP) additives. They are appropriate to be used under high load and/or high rev's conditions, ensuring an adequate lubricating film thickness even at hypoid gears under shock loads. GEAR EP/GL-5 lubricants have exceptional resistance to thermal and oxidative degradation that might lead to deposits formation under specific operating conditions. They meet the requirements of API's GL-5.

## APPLICATIONS

They are ideal for use in heavy-duty (hypoid) axles, highly stressed final drives and manual transmissions, steering gears and auxiliary drives of passenger cars and commercial or off-highway vehicles, in accordance with the specifications of major manufacturers. For synchronized manual gearboxes of cars, vans and commercial trucks or buses, they should be used only where lubricants of API GL-5 performance level are recommended.

## CHARACTERISTICS-BENEFITS

CHARACTERISTICS	BENEFITS
Sulphur-phosphorous extreme pressure (EP) additive technology.	Effective wear protection against pitting even under severe load conditions; enhanced load carrying capacity.
Excellent resistance to foaming and corrosion.	Extended drain intervals; smooth shift-ability.
Exceptional thermal and chemical stability at elevated temperatures.	Minimization of deposits and sludge formation; prolonged components' life.
Superior viscosity - in relation with temperature – characteristics; compatible with conventional seal materials.	Excellent cold flow properties and enhanced thermal stability. Flexibility in use.

## PHYSICAL-CHEMICAL CHARACTERISTICS

GEAR EP/GL-5	METHOD	SAE 80W-90	SAE 85W-90/90	SAE 85W-140
Density at 15°C, g/cm <sup>3</sup>	ASTM D1298	0,8920	0,892	0,898
Viscosity, Kinematic (cSt) 100 <sup>0</sup> C	ASTM D445	14,2	14,8	25,5
Viscosity, Kinematic (cSt) 40 <sup>0</sup> C	ASTM D445	134	147	340
Viscosity index	ASTM D2270	104	100	98
Flash point, COC, °C	ASTM D92	220	230	250
Pour point, °C	ASTM D97	-27	-24	-21

The above mentioned characteristics represent mean values.

## SPECIFICATIONS

API GL-5; U.S. MIL-L-2105D; MAN 342 Type M1, 342 Type M2; ZF TE-ML 05A, 07A, 08, 12E, 16B, 16C, 16D, 17B, 19B, 21A  
Suitable: Volvo 97310 (1273.10)

## APPROVALS

80W-90 : ZF TE-ML : 05A/12E/16B/17B/19B/21A