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# Universal Gear EP LS

SAE 80W-90

**Lubricants for mechanical transmissions, Limited Slip Differentials, final drives and wet brakes/clutches.**

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PAKELO UNIVERSAL GEAR EP LS SAE 80W-90 is a mineral based lubricant specific for heavy loaded gears and in general all couplings working under very heavy working conditions where the following performances are required: API GL-5, MIL-L-2105D, LS (Limited Slip).

The particular and updated performance additive package confers to PAKELO UNIVERSAL GEAR EP LS SAE 80W-90 high anti-oxidative, anti-rust, anti-wear, anti-foam properties and excellent EP (Extreme Pressure) and LS (Limited Slip) performances.

The additivation used, reduces effectively stick-slip phenomena that can appear under heavy specific loads but also thanks to EP properties prevents wear phenomena due to scoring, ruffle, abrasion and stretching of gear cogs (also hypoid).

The use of a particular and specific Friction Modifier (Limited Slip additivation) enables to use the products in mechanic transmissions (differentials, final drives, gears in general, etc.) in axles with wet brakes and limited slip differentials.

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## Application fields

PAKELO UNIVERSAL GEAR EP LS SAE 80W-90 can be used in differentials and limited slip differentials with wet brakes/clutches, earth moving machine axles, transaxles, reduction units, final reduction units, manual mechanical gears, etc..

The choice of suitable viscosity grades must be made in compliance with Recommendations from Constructors and according to ambient temperatures.

## Performance Levels

API GL-5, MIL-L-2105D, ZF TE-ML 05C / 07A / 08 / 12C / 21C.

## Chemical-Physical Characteristics

Universal Gear EP LS	Method analysis	Unit measure	Value SAE 80W-90
Density at 15°C	ASTM D1298	kg/l	0,900
Kinematic Viscosity at 40°C	ASTM D445	cSt	134,8
Kinematic Viscosity at 100°C	ASTM D445	cSt	14,4
Viscosity Index	ASTM D2270	-	105
Brookfield Viscosity at -26°C	ASTM D2983	cP	60.000
Flash Point (C.O.C.)	ASTM D92	°C	> 200
Pour Point	ASTM D97	°C	-26
Typical phosphorus content	ASTM D5185	ppm	2300

*The data just above refer to average values and must not be understood as guaranteed characteristics.*

*This Technical Data Sheet has been carefully checked to guarantee complete and precise information. However, we do not take any responsibility in case of damages caused by any mistakes or omissions. Due to continual product research and development, the information contained herein is subject to change without notification.*