

## ***Lubricating greases for long-term lubrication Lithium lubricating greases ISO L-XCCHB 1, 2***

### **FOR<sup>®</sup> LPD**

FOR<sup>®</sup> LPD smooth structure lithium lubricating greases. They are produced on the basis of lithium soap of higher fatty acids, high viscosity index mineral oils and special PD additives. According to their functional properties they belong to special lubricants suitable for long-term lubrication.

#### **ADVANTAGES**

- Excellent EP and antiwear properties for longer time period.
- Excellent mechanical and colloidal stability.
- Very high degree of protection of the lubricating assembly block from corrosion and rust.
- Good lubricity for increased loads over a long period of time.
- Good tackiness, on contact surfaces it forms the film of exceptional resistance to high pressures.
- Good rheological properties.
- Good thermal stability, resulting in high resistance to temperature variations.
- Excellent pumpability for longer distances.
- Compatible with Li lubricating greases.

#### **QUALITY LEVEL**

ISO 6743-9: L- X CCHB 1, 2

DIN 51502:KP 1 K-30, KP 2 K-30

#### **SCOPE OF APPLICATION**

- Motor vehicles
- Construction, agricultural, mining machinery
- Transport devices
- Other industries where lubricating grease is required for long-term lubrication of bearings

#### **APPLICATION**

- Long-term lubrication of primarily rolling and sliding bearings
- Lubrication of joints and other mechanical assemblies in difficult and unfavorable conditions, such as high and impact loads, vibrations, elevated operating temperatures and moisture.
- Lubrication of pump bearings, belt conveyors
- Lubrication of wheel bearings, sliding and rolling bearings of rotary excavators, stackers, conveyor belts, electric motor bearings, rollers for winding paper and other bearings with significant effects of uneven loads.
- Good lubrication effects are achieved with bearings with the speed of  $n = 3000$  r/min and with value  $D_{xn} = 600\ 000$ .
- Period of lubricant change when lubricating the automotive wheel bearings is over 100 000 km.
- Temperature range of application:  $-30^{\circ}\text{C}$  to  $+130^{\circ}\text{C}$

## TYPICAL CHARACTERISTICS

Characteristics	units	values		methods
FOR® LPD		1	2	
Colour	-	brown		visual
Soap type/ Thickener	-	Lithium soap		
NLGI grade		1	2	DIN 51 818
Working penetration at 25°C , 60 cyc.	mm/10	320	280	SRPS ISO 2137
Dropping point	°C	185	190	SRPS ISO 2176
Kinematic viscosity of base oil at 40°C	mm <sup>2</sup> /s	ca 300		SRPS ISO 3104
Water resistance, 90 °C	rating	1		DIN 51 807/1
EMCOR test,168h dist.water	rating	0/0		DIN 51 802
Average wear diameter	mm	0,45		ASTM D 2266
Weld load	N	3150		ASTM D 2596
Flow pressure, -30°C	mbar	2000	2500	DIN 51 805
FAG FE 9 (120 °C /1500N/6000o/min),L <sub>50</sub>	h	>1000		DIN 51 821/2
Temperature of application	°C	-30 to +130		

## STORAGE

Store in a covered area, protected from direct influence of sun and moisture, away from the ignition source. Recommended storage temperature: - 5°C to +25°C.

All necessary instructions can be found in the product SDS. It contains the details of possible hazards, warnings and first aid measures, as well as the impact on the environment and the necessary measures for the storage and handling.

## PACKING

Cans (0,4; 0,8; 4 and 20) kg and tin drums of 180 kg  
FOR LPD 2 and 50 kg and eurocartridge of 0.4 kg.

Data are orientational, manufacturer reserves the right to make changes in order to improve product quality.

