

<b>SYN-setral-LI/C 400 PD</b>	Nr. 033090
Fully synthetic high-temperature grease with EPL additive technology for extremely loaded slide and roller bearings	Packaging: 10 x 400g cartridges 1kg tin 5kg pails 15kg bucket 25kg hobbock 180kg drum other packaging on request

## Application

For long-term or lifetime lubrication of extremely loaded slide and roller bearings at slow or medium speed, even at high temperatures. Typical application: Especially developed for main, blade and azimuth bearings of wind power stations. Due to the special EPL additive technology micropitting and pittings are avoided and re-smoothing of surface damages is enabled. Ideal suited for the lubrication of rotation ovens, sledgehammers, gantry crane wheels, shovels, agricultural and construction vehicles, conveyor transportbelts etc.

## Characteristics

- Ideal corrosion protection
- Controlled surface smoothing
- Very good results in the FE8 test
- Especially wide temperature application range
- Free from solids and silicone
- Good water resistance
- Good resistance to ageing
- Excellent wear properties
- Highest load carrying ability
- Well conveyable in central lubrication systems starting at -20°C (progressive central lubricating systems should be tested previously by the user)

## Method of use

- Application manually or by automatic dosing.
- Fill bearing housing half only.
- Follow the instructions of the bearing manufacturer.
- The minimum shelf life in original sealed containers, stored in a cool and dry place (no direct sunlight) is about 3 years.
- Due to the variety of applications we highly recommend to always carry out corresponding tests prior to general use.

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All data are guide values and reflect the state of our knowledge at the time of publication. The above information do not represent any assurance of warranted properties and are not a guarantee for individual applications. All data included in this document may be changed without prior notice at any time. This version replaces all previous versions.

### Technical data

Colour	auburn		DIN ISO 2049
Basis	Synthetic oil		
Thickener	Lithium complex soap		
Density, 20°C	0.856	g/cm <sup>3</sup>	in house
Base oil viscosity at 40°C	400	mm <sup>2</sup> /s	DIN 51562
Base oil viscosity at 100°C	34	mm <sup>2</sup> /s	
Viscosity index	148		DIN ISO 2909
Penetration, unworked	≈ 285	1/10 mm	DIN ISO 2137
Penetration, worked 60 DH	≈ 295	1/10 mm	DIN ISO 2137
Penetration drop after 10 <sup>5</sup> DH	+ 30	1/10 mm	ISO 2137
Penetration drop after 50h/80°C	+ 20	1/10 mm	ASTM D1831/11
Pour point	- 40	°C	DIN ISO 3016
Copper corrosion, 24h/100°C	1	rating	DIN 51811
Steel corrosion (EMCOR) dist. Water	0	rating	DIN 51802
Steel corrosion (EMCOR) 3% NaCl	0/1	rating	DIN 51802
Four ball weld load	3600	N	DIN 51350-4
Four ball wear test 1500N/1min	1.6	mm	DIN 51350-5
Four ball wear test 400N/1h	0.7	mm	DIN 51350-5
SRV load stage test	800	N	DIN 51834
SRV friction coefficient, 200N, average	0.089	N	DIN 51834
SRV cage, average diameter	441	µm	DIN 51834
Flow pressure at -35°C (Kesternich)	800	hPa	DIN 51805
nd <sub>m</sub> factor deep groove ball b.	350 000	mm/min	
nd <sub>m</sub> factor taper ball bearing	250 000	mm/min	
Temperature range	- 38 - + 180	°C	

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