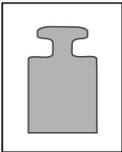
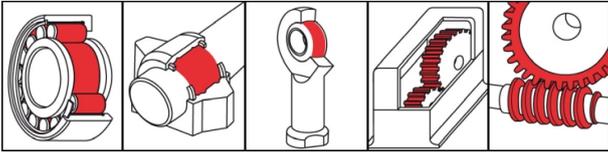


## OKS 428

### Fluid Grease for Gears, synthetic



#### Description

OKS 428 is a synthetic fluid grease for gears.

#### Applications

- Lubrication of heavy loaded toothed gears and worm gears exposed to outdoor conditions and/or low temperatures, as well as tilted or vertical shafts, especially with gear designs which are not oil-tight
- Lubrication of friction bearings with minimal bearing clearance or high circumferential speeds

#### Branches

- Rubber and plastic processing
- Paper and packaging industry
- Glass and foundry industry
- Chemical industry
- Rail vehicle technology
- Iron and steel industry
- Municipal services
- Logistics
- Shipbuilding and marine technology
- Plant and machine (tool) engineering

#### Application tips

For best results clean the lubricating point carefully, e.g. with OKS 2610/OKS 2611 Universal Cleaner. Remove the corrosion protection before initial filling. Fill the gear in a way that all the functional surfaces for sure transport the grease. Observe the instructions of the bearing or machine manufacturer. Relubrication with an automatic lubrication system or, if necessary, with a brush or spatula. Relubrication intervals and amount to be defined acc. to the service conditions. If the removal of the old grease is not possible the amount of grease has to be limited to avoid excess lubrication of the gear. At longer relubrication intervals a complete exchange of the old grease is recommended. Mix with appropriate lubricants only.

#### Packaging

- 1 kg Can
- 5 kg Hobbock
- 25 kg Hobbock

#### Advantages and benefits

- Long-term lubrication due to excellent resistance to oxidation and ageing
- Wear reduction at maximum loading
- Prevents leakage with angled or vertical shafts due to good adhesion on metallic surfaces
- Flowing structure prevents grooving in gear units with continuous coverage of surfaces



**OKS 428**

**Fluid Grease for Gears, synthetic**

**Technical data**

	Standard	Conditions	Unit	Value
<b>Main components</b>				
base oil				polyglycol
thickener				lithium hydroxystearate
<b>Application related technical data</b>				
marking	DIN 51 502	DIN 51 825		GPPG00K-30
viscosity (base oil)	DIN 51 562-1	at 40°C	mm <sup>2</sup> /s	120
viscosity (base oil)	DIN 51 562-1	at 100°C	mm <sup>2</sup> /s	20
pour point	DIN ISO 3016	3°C step	°C	-45
flashing point	DIN ISO 2592	> 79	°C	> 200
drop point	DIN ISO 2176		°C	> 160
consistency	DIN 51 818	DIN ISO 2137	NLGI grade	00
worked penetration	DIN ISO 2137	60DH	0.1 mm	400-430
lower operating temperature	DIN 51 805	≤ 1,400 hPa	°C	-30
upper operating temperature	DIN 51 821-2	F50 (A/1500/6000), 100h	°C	120
colour				brown
density	DIN EN ISO 3838	at 20°C	g/cm <sup>3</sup>	0.99
water resistance	DIN 51 807-1	3h/90°C	Degree	1-90
DN value (dm x n)			mm/min	600,000
four-ball test rig welding load	DIN 51 350-4		N	3,000
four-ball test rig wear	DIN 51 350-5		mm	0.3
SKF-EMCOR	DIN 51 802		corr. degree	0-1
SKF-EMCOR Copper	DIN 51 811	24h, 100°C	corr. degree	0-1
FZG wear protection test	DIN 51 354 T2	A/8,3/90	power level	> 12
<b>Product specific technical data</b>				
Timken	SEB 181 302	50lbs	mg	< 5

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The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.