

# Klübertemp HCB 83-402

High-temperature lubricant for roller chains in stenter frames



## Your benefits at a glance

- Long relubrication intervals for high efficiency
- Resistant towards aggressive chemicals in textile softening and finishing agents
- Long-standing effective use at leading manufacturers of stenter frames

## Your requirements - our solution

Due to increasing cost pressure, the textile industry is demanding chain lubricants offering ever higher thermal stability and longer relubrication intervals.

We developed Klübertemp HCB 83-402 to reduce your operating costs.

Klübertemp HCB 83-402 is a synthetic high-temperature lubricant for roller chains based on perfluorinated polyether oils and a new combination of PTFE solid lubricants. Klübertemp HCB 83-402 does not harden in continuous operation, extending machine availability.

Relubrication of friction points is also made easier. Selected base oils provide the optimum combination of evaporation stability and the right viscosity for operation. The lubricant remains in the friction point for longer and increases the life expectancy of your roller chain.

Klübertemp HCB 83-402 offers long relubrication intervals, reduced maintenance requirements and good wear protection to reduce your operating costs.

## Application

Klübertemp HCB 83-402 was specially developed for the long-term lubrication of rolling bearings in roller chains of high-performance stenter frames. The lifetime of the anti-spreader chain determines the performance and efficiency of your entire plant. Drying, conditioning and heat-setting may involve temperatures above 200 °C. Additionally, chain and lubricant are in contact with aggressive media from softening and finishing agents.

Under these conditions, Klübertemp HCB 83-402 has proven to be a durable and reliable lubricant. Klübertemp HCB 83-402 is generally regarded as neutral towards elastomers and plastics (with the possible exception of perfluorinated rubber).

No negative effects are known when used with chain lubricants like Klüber PRIMIUM FLUID SPECIAL.

## Application notes

Klübertemp HCB 83-402 can be applied using a spatula, brush or grease gun.

For optimum lubrication results, we recommend cleaning the friction points with white spirit 180/210 followed by Klüberalfa XZ 3-1 before using Klübertemp HCB 83-402 for the first time. The friction points must be clean and bright, i.e. free from oil, grease, perspiration and contamination. Then blow the surfaces with clean, dry compressed air or hot air to remove white spirit residues.

To optimise the service life of your equipment or if you have any other questions regarding your application, our experts will be pleased to help you. We look forward to hearing from you.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klübertemp HCB 83-402
Cartridge 800 g	+
Can 1 kg	+

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High-temperature lubricant for roller chains in stenter frames



Pack sizes	Klübertemp HCB 83-402
Bucket 10 kg	+

  

Characteristics	Klübertemp HCB 83-402
Article number	090083
Composition	solid lubricant
Composition, type of oil	PFPE
Service temperature, lower limit	-30 °C
Service temperature, upper limit	260 °C
Density, Klüber method: PN 024, 20°C	approx. 1.87 g/cm <sup>3</sup>
NLGI grade, DIN 51818	2
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s <sup>-1</sup>	approx. 12500 mPas
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 40 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 420 mm <sup>2</sup> /s
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	≤ 1 corrosion degree
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx. 60 months	

## Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 90 years.

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