

Klübersynth CZ 2-85

Special oil for chain pin lubrication and chain cleaning in film stretchers



Your benefits at a glance

- **Easy application due to miscibility with many chain lubricants**
- **Less maintenance requirement due to cleaning effect during operation**
- **Higher productivity due to reduced downtime**
- **Less frequent servicing due to optimum lubricant backflow throughout the chain system**
- **Significantly lower energy consumption due to optimum lubrication conditions**

Your requirements – our solution

Operators and OEMs of film stretchers have to meet constantly growing requirements: failure-free operation, reduced downtime and increasing energy savings. This cannot be fully attained with conventional high-temperature chain oils. Until recently, a special cleaning or flushing oil had to be used, which made production stoppage necessary. Cleaning while the machine remains in operation is a considerable improvement. This is possible if a special chain oil is used which combines a cleaning with a lubricating effect.

Klübersynth CZ 2-85 is an efficient cleaning oil for your film stretching machinery. Our profound expertise in the development of high-temperature chain oils is based on 40 years of experience gained in collaboration with international OEMs and film stretcher operators.

Klübersynth CZ 2-85 offers you a matching solution for the continuous operation of film stretchers with sliding guide chains. This special low-viscosity, thermally stable cleaning and lubricating oil based on ester oil with additional lubricating and cleaning substances was developed in our research and test lab in cooperation with our customers.

The composition of Klübersynth CZ 2-85 allows it to dissolve used oil which has become pasty during operation and flush dirt and wear particles from points of friction. This reduces wear and extends the required service intervals. The cleaning effect of Klübersynth CZ 2-85 also reopens narrowed clearances, resulting in optimised lubrication of friction points and a reduction in energy consumption.

Application

Klübersynth CZ 2-85 is a fully synthetic high-temperature oil that was especially developed for lubricating and cleaning conveyor

chain sliding systems and pins in biaxial high-speed film stretchers.

One of our customers was able to achieve energy savings of 33 % by using Klübersynth CZ 2-85, which led to a drop in energy costs amounting to approximately EUR 18,000 (0.09 EUR/KW). Reduced downtime, reflected by an increase in productivity, can also be expected.

Application notes

Undiluted Klübersynth CZ 2-85 can be used for long-term chain pin lubrication. To ensure the chain system is kept continuously clean, Klübersynth CZ 2-85 should be used regularly. For lubrication, the oil can then be mixed with PRIMIUM SUPER, PRIMIUM SUPER M93 or Klübersynth CH 2-280 at ratio of 3:1, depending on the chain speed.

Klübersynth CZ 2-85 is not miscible with PRIMIUM FLUID SPECIAL.

It is not necessary to use a special cleaning or flushing oil for an oil changeover. We recommend, however, cleaning the chain system and all machine parts in contact with the oil before filling with the new lubricant so that it can release its full benefits. For this purpose, we also recommend using Klübersynth CZ 2-85.

This cleaning and lubricating oil can also be used in combination with chain oils from other manufacturers. Please contact us to determine if the products are miscible.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.



Klübersynth CZ 2-85

Special oil for chain pin lubrication and chain cleaning in film stretchers

Pack sizes	Klübersynth CZ 2-85
Canister 20 l	+
Drum 200 l	+
Product data	Klübersynth CZ 2-85
Article number	002144
Chemical composition, type of oil	ester oil
Upper service temperature	180 °C / 356 °F
Appearance	clear to turbid
Colour space	yellow
Density at 20 °C	approx. 0.98 g/cm ³
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 85 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 10.5 mm ² /s
Viscosity index, DIN ISO 2909	>= 105
Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus	>= 190 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 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 80 years.

**Klüber Lubrication München SE & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.**

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.

Publisher and Copyright: Klüber Lubrication München SE & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München SE & Co. KG and if source is indicated and voucher copy is forwarded.



a company of the Freudenberg Group