

# Klübersynth® CTH 2-260

High-temperature oil for oil-lubricated stenters in the textile industry



## Description:

Klübersynth CTH 2-260 is a special high-temperature oil providing reliable lubrication even at high temperatures and under increased loads. It is an advanced product based on existing high-temperature oils.

Klübersynth CTH 2-260 has only slight evaporation losses at high temperatures and – provided the friction points are always covered with an oil film – does not form any lacquer-like residues.

In addition, Klübersynth CTH 2-260 dissolves pasty used oil residues at the lubrication point which maintains high-quality lubrication. It also exhibits good spreading properties and thus ensures that a lubricating film is formed quickly.

## Application:

As already mentioned, Klübersynth CTH 2-260 is an advanced product based on existing high-temperature oils; it features improved properties and can replace the Klüber chain oils currently available for the lubrication of chains operating at high temperatures.

This applies to all types of oil-lubricated stenter chains, e.g.

- roller chains
- chains or clips supported by ball bearings with a combined lubrication of the bearings, chain links and slide rails
- slide chains with a combined lubrication of the slide rails, chain links and chain bolts

in

equalizing frames,  
single-layer stenters,  
tier frames,  
loop driers,  
festoon steamers,  
coating plants.

## Findings from field tests and practical applications:

- The improved viscosity-temperature relation, which is characterized by a high viscosity index, results in better cold-starting properties of the machine and in reduced power consumption.
- Increased spreading properties ensure rapid wetting of the friction points, especially of the chain links.
- The product shows good adhesiveness and sufficient spreading properties in long machines.
- Chain soiling due to oil residues is reduced, thus providing extended chain cleaning intervals when evenly and properly applied.
- Separates condensate residues at the friction points – depending on the respective product.

## Klübersynth CTH 2-260

- Provides reliable lubrication even at high operating temperatures
- Does not form any lacquer-like residues with quasi-continuous total loss lubrication
- Has only slight evaporation losses at high temperatures
- Dissolves pasty residues of used oil at the friction points and thus improves lubrication
- Is compatible with nonferrous metals
- Exhibits excellent spreading and wetting properties

## Product data:

Colour, appearance	yellow, clear
Base oil	fully synthetic
Density at 20 °C, DIN 51 757, g/cm <sup>3</sup> , approx.	0.91
Kinematic viscosity, DIN 51 561 at 20 °C, mm <sup>2</sup> /s, approx. at 40 °C, mm <sup>2</sup> /s, approx. at 100 °C, mm <sup>2</sup> /s, approx.	820 260 30
Viscosity index, DIN ISO 2909, VI, approx.	150
Flash point, DIN ISO 2592 (open cup), °C, approx.	250
Operating temperature range*, °C, approx.	up to 250

\* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechanical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

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## Application Instructions:

The Klüber chain oils currently in use can be replaced by Klübersynth CTH 2-260 without having to carry out special measures. It is miscible/compatible with these oils, thus making it unnecessary to clean the chain systems in advance if they are in a normal service condition. Oil reservoirs, however, should be completely emptied prior to the application of Klübersynth CTH 2-260 and then be refilled.

Depending on the manufacturers' instructions on viscosity, Klübersynth CTH 2-260 can be applied using standard pump, spray and metering systems. The lubrication intervals and the lubricant quantity to be applied are dependent on the chain design, the lubrication mode and the variable operating conditions.

1.5 to 2 ml of oil per meter of chain and operating shift is an approximate value for chain oil consumption in stenter chains at operating temperatures of less than 180 °C.

If possible, the chain/slide rails have to be lubricated continuously or at least in short intervals, taking into consideration the structural design and the length of the chains. Extended lubrication intervals do not pay, they increase the risk of wear damage due to lubricant starvation.

It is much more advantageous to regularly apply a metered quantity of lubricant every day or in every operating shift.

Overlubrication should be avoided since it might result in oil splashes and contamination of the product.

### Note:

According to the experience we gained in field tests and in practice, Klübersynth CTH 2-260 does not form any lacquer-like residues when properly applied, i.e. the chains and slide rails should always be covered with an oil film. In case of excessive heat, however, if the relubrication intervals were too long, there may be powdery residues after the lighter components of the lubricant have evaporated.

Timely application of fresh oil will result in the dissolving of these residues and will ensure proper lubricant supply to the friction points.

## Storage:

Store at room temperature, if possible.

### Note:

Oil stored at room temperature is easy to pour and will properly circulate in the lubrication system.

## Package sizes:

5 l canister  
5 x 5 l canister  
40 x 5 l canister

20 l canister  
3 x 20 l canister  
10 x 20 l canister

200 l drum

The data in this product information is based on our general experience and knowledge at the time of printing 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 tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.



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