

# Klübersynth HM 2-220

High-temperature oil for the glass industry



## Benefits for your application

- Lower oil costs due to lower consumption
- Lower waste water disposal costs due to excellent water separation ability
- Much less machine contamination, hence lower cleaning costs
- Smooth machine operation due to good pumpability and precise metering by centralised lubricating systems
- Higher machine efficiency due to uninterrupted operation with higher output
- Higher machine reliability due to less residue formation
- Less machine wear also at high temperatures
- No starting-up problems, restart of cooled-down machine 20% to 30% faster thanks to good temperature-viscosity behaviour
- Changeover to Klübersynth HM 2-220 easy as miscible with mineral oil

## Description

Klübersynth HM 2-220 is a synthetic high-temperature oil especially developed for the glass industry. Besides the normal temperature range, Klübersynth HM 2-220 is especially suitable for the high-temperature range because its evaporation loss at elevated temperatures is very low. The product has good penetration properties and forms a lubricant film very quickly. Klübersynth HM 2-220 is free from solids, which helps to avoid sedimentation.

conveyor and cross belt chains which are lubricated by means of oil spray systems, drip oilers, centralized lubrication system, or by hand (oil feeder/brush).

## Application notes

Keeping the friction point always covered with Klübersynth HM 2-220 ensures good wear protection and prevents impeded operation and residues. To achieve optimum efficiency it is important not to mix Klübersynth HM 2-220 with other oils.

## Application

Klübersynth HM 2-220 is suitable for all IS machines. It can be used for all friction points in the normal and high-temperature sections which are lubricated through a centralized lubrication system. In addition, Klübersynth HM 2-220 is suitable for

## 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	Klübersynth HM 2-220
Drum 200 l	+
Container 1000 l	+

Product data	Klübersynth HM 2-220
Article number	002115
Chemical composition, type of oil	ester oil
Chemical composition, type of oil	synthetic hydrocarbon oil
Upper service temperature	250 °C / 482 °F
Colour space	yellow



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Product data	Klübersynth HM 2-220
Appearance	clear
Density, DIN 51757, 20 °C	approx. 0.92 g/cm <sup>3</sup>
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 220 mm <sup>2</sup> /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 25 mm <sup>2</sup> /s
Four-ball EP tester, welding load, DIN 51350 part 2	>= 2 200 N
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.

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