

Klübersynth M 8-175, Klübersynth M 8-220

High-temperature oils for the glass industry



Your benefits at a glance

- 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 M 8-175 and Klübersynth M 8-220 is easy as products are miscible with mineral oils

Your requirements - our solution

Klübersynth M 8-175 and Klübersynth M 8-220 are synthetic high-temperature oils especially developed for machines producing hollow glassware.

Besides the normal temperature range, Klübersynth M 8-175 and Klübersynth M 8-220 are especially suitable for the high-temperature range because their evaporation loss at elevated temperatures is very low.

The products have good penetration properties and form a lubricant film very quickly.

Klübersynth M 8-175 and Klübersynth M 8-220 are free from solids, which helps to avoid sedimentation.

Application

Klübersynth M 8-175 and Klübersynth M 8-220 are suitable for all IS machines. They can be used for all friction points in the normal

and high-temperature sections which are lubricated through a centralised lubrication system.

In addition, Klübersynth M 8-175 and Klübersynth M 8-220 are suitable for conveyor and cross belt chains which are lubricated by means of oil spray systems, drip oilers, centralised lubrication system, or by hand (oil feeder/brush).

Application notes

Keeping the friction point always covered with Klübersynth M 8-175 or Klübersynth M 8-220 ensures good wear protection and prevents impeded operation and residues. To achieve optimum efficiency it is important not to mix Klübersynth M 8-175 or Klübersynth M 8-220 with other oils.

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.

| Pack sizes | Klübersynth M 8-175 | Klübersynth M 8-220 |
|------------------|---------------------|---------------------|
| Canister 20 l | | + |
| Drum 200 l | | + |
| Container 1000 l | + | + |

Klübersynth M 8-175, Klübersynth M 8-220

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| Characteristics | Klübersynth M 8-175 | Klübersynth M 8-220 |
|--|--------------------------------|--------------------------------|
| Article number | 002160 | 002134 |
| Appearance | clear - turbid | clear |
| Colour space | yellow | yellow |
| Service temperature, upper limit | 250 °C | 250 °C |
| Density, DIN 51757, 20°C | approx. 0.87 g/cm ³ | approx. 0.87 g/cm ³ |
| Flash point, DIN EN ISO 2592, Cleveland open cup | ≥ 250 °C | |
| Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C, lower limit | 19 mm ² /s | 21 mm ² /s |
| Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C, upper limit | 21 mm ² /s | 26 mm ² /s |
| Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C, lower limit | 158 mm ² /s | 190 mm ² /s |
| Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C, upper limit | 192 mm ² /s | 230 mm ² /s |
| Viscosity index, DIN ISO 2909 | ≥ 130 | approx. 130 |
| Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx. | 24 months | 24 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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