

HOTEMP SUPER N

High-temperature oil for continuous particle board presses



Benefits for your application

- Maximum machine life even at high operating temperatures due to good spreading and wetting properties
- No lacquer-like residues and thus low contamination of machines due to quasi-continuous total loss lubrication
- Low consumption due to low evaporation losses at high temperatures
- Keeps the lubrication systems free of residues, thus reduced maintenance

Description

HOTEMP SUPER N is a special high-temperature oil providing reliable lubrication even at high temperatures and speeds. It is an advanced product based on the high-temperature chain oils of the HOTEMP series.

HOTEMP SUPER N has only low evaporation losses at high temperatures. When properly applied, it does not form any lacquer-like residues provided the friction points are always covered with an oil film. In addition, HOTEMP SUPER N offers excellent penetrating properties and thus ensures a rapid lubricating film formation (see Application notes).

Application

In the woodworking industry

We have already gained vast, positive experience with the application of HOTEMP SUPER N in double-belt presses for the continuous production of fibre and particle boards or laminates, especially in the following systems:

- ContiRoll® of Messrs. Siempelkamp
- Conti-Panel-System of Messrs. Dieffenbacher
- küsters press® of Messrs. Metso/Küsters

These double-belt presses operate at high pressures and very high temperatures (>200 °C).

The most complex lubrication points on the moving parts in the heating and compression area are:

- steel belts, carpets of calibrated rollers, heating platens

- roller bar chains
- contact pressure and aligning chains
- steel belts, beds of roller chains, heating platens

Friction points, i.e. steel belts/roller bars or chain carpets are fully exposed to the heating/compressing temperature.

Due to the thermal radiation, the other chains are subject to temperatures ranging from approx. 150 to 180 °C.

Application notes

According to the experience we gained on our test rigs and in practice, HOTEMP SUPER N does not form any lacquer-like residues when properly applied, i.e. if belts, roller bars, chains and slide rails are always covered with an oil film. However, extremely high temperatures in combination with insufficient lubrication may lead to the formation of powdery residues.

When applying fresh oil in time, such residues will be regenerated and ensure proper lubricant supply to the friction points.

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 | HOTEMP SUPER N |
|------------------|----------------|
| Drum 200 l | + |
| Container 1000 l | + |



HOTEMP SUPER N

High-temperature oil for continuous particle board presses

| Product data | HOTEMP SUPER N |
|--|--------------------------------|
| Article number | 002119 |
| Chemical composition, type of oil | synthetic hydrocarbon oil |
| Chemical composition, type of oil | ester oil |
| Upper service temperature | 250 °C / 482 °F |
| Colour space | yellow |
| Appearance | clear |
| Density, DIN 51757, 20 °C | approx. 0.92 g/cm ³ |
| Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C | approx. 260 mm ² /s |
| Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C | approx. 29 mm ² /s |
| Viscosity index, DIN ISO 2909 | >= 135 |
| Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus | >= 260 °C |
| Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx. | 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 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.