

# HOTEMP SUPER N PLUS

High-temperature oil for continuous wood panel presses



## Your benefits at a glance

- Reduced energy consumption and improved efficiency due to advanced additives, even at very high temperatures
- No lacquer-like residues formed under continuous total loss lubrication conditions
- Low evaporation losses with reduced oil consumption and fume formation
- Good adhesion and spreading properties, minimised contamination risk and effective lubricant supply to all friction points

## Your requirements - our solution

HOTEMP SUPER N PLUS is a special high-temperature oil for use on the latest generation of continuous board presses subject to highest process temperatures and speeds.

HOTEMP SUPER N PLUS is an advanced product based on the HOTEMP...series with further development in terms of evaporation losses at temperatures between 230 and 260 °C.

No lacquer-like residues are formed under continuous total loss lubrication conditions. The special additives contained in HOTEMP SUPER N PLUS ensure good wear protection, spreading properties and stable lubricating film generation.

## Application

For use in continuous belt presses manufacturing fibreboard, such as particle, MDF, HDF, OSB or LVL boards.

The product has been designed especially for use in the following systems:

*ContiRoll® of Messrs. Siempelkamp*

*Conti-Panel-System of Messrs. Dieffenbacher*

*küsters press®/contipress™ of Messrs. Metso/Küsters*

Complex lubrication points in the heating and compression area are:

- steel belts, roller rod carpets, heating platens
- roller bar chains

- contact-pressure and alignment chains

or

- steel belts, beds of special roller chains, heating platens

The friction points, i.e. steel belts & roller rods, are fully exposed to heating and compression temperatures. Chains are exposed to radiant heat typically at temperatures of 160 °C to 190 °C.

The other chains, pins and bending rods are lubricated with other HOTEMP SUPER products depending on machine design and operating conditions.

## Application notes

According to the experience we gained on our test rigs and in practice, HOTEMP SUPER N PLUS 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](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	HOTEMP SUPER N PLUS
Canister 5 l	+
Canister 20 l	+
Drum 200 l	+

# HOTEMP SUPER N PLUS

High-temperature oil for continuous wood panel presses



Pack sizes	HOTEMP SUPER N PLUS
Container 1000 l	+
Characteristics	HOTEMP SUPER N PLUS
Article number	002075
Composition, type of oil	ester oil , synthetic hydrocarbon oil
Appearance	clear
Colour space	yellow
Service temperature, upper limit	250 °C
Density, DIN 51757, 20°C	approx. 0.91 g/cm <sup>3</sup>
Flash point, DIN EN ISO 2592, Cleveland open cup	≥ 260 °C
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 28 mm <sup>2</sup> /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 260 mm <sup>2</sup> /s
Viscosity index, DIN ISO 2909	≥ 140
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 95 years.

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

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