

MDF (MEDIUM DENSITY FIBERBOARD) MANUFACTURING

Lubrication for MDF press

For MDF manufacturing, the key processes are in the press system where glued chips are scattered onto a belt and transported into the press, including pre-press and hot-press.

Lubrication points include: Steel belt that presses the mat, roller bars that transfers load and heat to the steel belt, laterally running chains that guide the rolling bars.

As the hot press constantly runs at temperature over 200°C, synthetic high-temperature oils and greases are essential to protect roller bearings and chains against wear.



Steel belt

The pressing steel belt is normally lubricated by central oil spray lubrication system. As temperature imposed on the steel belt can go up to over 200°C, a synthetic high-temperature oil is required.

For this application Dulub offers:
HOTENLINK KTN 35 I

It is highly stable synthetic fluid with superior thermal stability which is a great advantage under high-temp situation. You won't find hard carbon residue after years with KTN 35 I.

Combining the thermal stability with good lubricity, good adhesion, good penetration, anti-corrosion, and low evaporation, a longer service life of the steel belt can be expected.

Bearings- unheated rollers

For bearings of unheated rollers, a grease with good load carrying ability is required.

For this application Dulub offers:
LAGERFETT MPEP

It is a lithium grease based on refined mineral with extreme pressure additive, mainly for bearing applications.

It operates between -20 ~ 100°C for long term lubrication at loaded zone. Water-resistant, anti-wear and anti-oxidant property will overcome any severe environment to achieve a long service life for all mechanisms.

For higher operating temperature up to 160°C, **LAGERFETT URA 2** is recommended.

Bearings- heated rollers

For bearings of heated rollers, both high-temp thermal stability and load carrying ability need to be considered.

For this application Dulub offers:
UNIFLOR 4622r

It is a PTFE thickened, heavy viscosity, completely fluorinated grease intended for severe service bearings. It operates between -20 ~ 260°C with good film strength. It is also chemical resistant and durable against water wash-out.

Guide chains

For the laterally running guide chains for rolling bars, a chain oil with good lubricity and superior thermal stability.

For this application Dulub offers:
HOTENLINK KTN 9 I

It is a highly stable synthetic intended for use as a high-temp chain oil.

HOTENLINK KTN 9 I has been proved to be a good lubricant for a chain system. Combining lubricity, anti-corrosion, non-carbonizing and low-evaporation, you would achieve a longer chain-system life. No carbon residue, which is how most fluids damage a chain, will be found after years.



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