

Chain Lubrication at High Temperatures



Challenge:

In many industrial processes – such as drying systems, film stretching lines, or corrugated board and wood processing – drive chains are exposed to extreme thermal loads. Temperatures exceeding 250°C are part of daily operations. Under these conditions, conventional chain oils quickly reach their limits:

- Thermal instability causes coking or evaporation – severely impacting lubrication and chain life.
- Oxidation accelerates lubricant degradation, leading to frequent maintenance and unplanned downtime.
- Residue buildup blocks lubrication channels, increases chain stiffness, and jeopardizes operational safety.
- Moisture, steam, and dust place additional stress on the chain – requiring specially formulated lubricants.

Solution:

Selected TURMOFLUID or TURMOSYNTHOIL products: for maximum performance at maximum temperatures.

Our high-performance lubricants are engineered for applications where conventional oils fail, particularly in thermally demanding chain systems.

What sets our high-temperature lubricants apart:

- Thermally stable and oxidation-resistant: Long service life even under continuous high-temperature stress.
- Minimal residue and evaporation: Clean lubrication channels ensure operational reliability.
- Superior corrosion and wear protection: TURMOFLUID reliably protects chains against friction and material degradation – significantly reducing maintenance.
- Resistant to steam, water, and cleaning processes: Lubrication remains effective even when exposed to hot water, steam, or cleaning agents – ideal for demanding environments.

Result:

- ✓ Maximum process reliability
- ✓ Reduced lubricant consumption
- ✓ Extended maintenance intervals
- ✓ Demonstrably lower total cost of ownership (TCO)