

SYNTHOX HT

India's First and Only True Synthetic · High Moly · Non-Melting Grease with Highest Anti-Wear and Anti-Friction Capabilities to Prevent Failures in Heavy-Duty Fans and Blowers

Fan & Blower Applications in a Pulp & Paper Mill

Recovery boiler ID and FD fans run in the hottest and most corrosive duty in a paper mill — sulphur-rich flue gas, steam, and 150–200°C continuous bearing temperature. Limekiln ID fans, dryer exhaust fans, and bag filter fans across the mill face similar thermal stress. Recovery boiler fan failure triggers a multi-day outage because the boiler has to be cooled, entered, and restarted. SYNTHOX HT's sulphur-resistant synthetic base and non-melting thickener are designed for this exact service.

Part A — Annual Cost of Fan Bearing Failures (600 TPD Integrated Mill)

- **Fan bearing life:** ordinary high-temp grease delivers 1–2 years on recovery boiler and limekiln fans against 4–5 year design life.
- **Bearing + coupling spares: ₹30–55 lakh/year.** Recovery boiler ID fan bearings are high-value spares; cascade damage to shaft and coupling typical.
- **Re-greasing labour: ₹12–20 lakh/year.** Steam and heat degrade grease faster than specified re-lube interval.
- **Recovery boiler outage: ₹1.5–4 cr/year — the dominant cost.** A recovery boiler fan failure halts pulp line production; restart and NDT add 48–72 hrs.
- **Total: ₹2–5.5 cr/year per 600 TPD mill.** A non-melting synthetic moly grease delivers 2–3× bearing life and addresses ₹70 lakh–2.5 cr/year.

Part B — Fan & Blower Applications

- **Recovery Boiler** — recovery boiler ID fan bearings; FD fan bearings; tertiary air fan bearings; smelt dissolving tank exhaust fan bearings.
- **Limekiln** — limekiln ID fan bearings; FD fan bearings; product cooler fan bearings.
- **Pulp Mill** — digester relief condenser fan bearings; brownstock washer vent fan bearings.
- **Bleach Plant** — ClO₂ generator exhaust fan bearings; bleach tower vent fan bearings; scrubber fan bearings.
- **Paper Machine** — dryer section hood exhaust fan bearings; pocket ventilation fan bearings; heat recovery fan bearings.
- **Coater / Sizer** — coating drying fan bearings; air-drying booster fan bearings.
- **Captive Power Plant (Coal / Biomass)** — boiler ID, FD, and PA fan bearings; mill seal air fan bearings.
- **Wood Yard / Chipper** — chip conveyor dust collector fan bearings; bark boiler FD fan bearings.
- **ETP / Vent** — aerobic reactor blower bearings; gas holder purge fan bearings.
- **Ancillary** — chemical storage vent fan bearings; compressor house ventilation fan bearings.

Request a free 90-day plant trial — your reliability data will speak for itself.

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