

SUPERQUIET 100

India's First and Only True Synthetic Grease That Will Not Leak into Windings and Cause Failure of HT Motors

HT Motor Applications in a Pulp & Paper Mill

Paper mills run HT motors on refiners (flagship application), recovery boiler fans, limekiln drives, paper machine main drives, and plant auxiliaries. Refiner motors run continuously at high load with moisture and pulp fibre ingress risk around the bearing housing; recovery boiler fan motors see hot sulphur atmosphere. Ordinary grease migration into windings combined with moisture and corrosive vapour accelerates insulation breakdown. SUPERQUIET 100 stays in the bearing cavity where it belongs.

Part A — Annual Cost of HT Motor Failures — 600 TPD Integrated Mill — 25–45 HT Motors

- **HT motor failure rate:** 3–6% annual on mill fleet; 25–40% lubricant-attributable — 1–3 preventable failures/year.
- **Motor replacement / rewind:** ₹40–90 lakh/year. Refiner motors ₹40–80 lakh; recovery boiler fan motors ₹50 lakh–1 cr; paper machine drive motors ₹30–60 lakh.
- **Re-greasing + monitoring:** ₹6–12 lakh/year. Modern mills run PD monitoring on critical HT motors.
- **Machine + recovery downtime:** ₹1–3.5 cr/year — the dominant cost. Refiner motor failure halts pulp supply; recovery boiler fan motor failure forces boiler cool-down.
- **Total:** ₹1.5–4.5 cr/year per 600 TPD mill. A true synthetic non-migrating grease addresses ₹50 lakh–2 cr/year.

Part B — HT Motor Applications

- **Pulp Refining** — primary refiner motor (often the largest HT motor in the mill); secondary refiner motor; disc refiner motors.
- **Recovery Boiler** — recovery boiler ID fan motor; FD fan motor; BFP motor; CEP motor.
- **Limekiln** — limekiln main drive motor; FD fan motor; lime slaker drive motor.
- **Paper Machine** — main drive motors (section drive HT motors on modern machines); vacuum pump drive motors.
- **Pulp Mill** — digester circulation pump motor; brownstock washer pump motor; knotter and screen drive motors.
- **Bleach Plant** — chemical mix pump motors; washer pump motors; oxygen reactor recirculation pump motor.
- **Evaporator & Recovery** — black liquor evaporator pump motor; green liquor pump motor; concentrator pump motor.
- **Captive Power Plant** — biomass / coal boiler BFP motor; CW pump motor; ID/FD fan motors; TG auxiliary motors.
- **Woodyard** — chipper drive motor (HT on large chippers); log handling crane motors.
- **Utilities** — mill-wide CW pump motor; vacuum system compressor motor; compressed air plant motors.

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

Contact: technical@stanvac.com · www.stanvac.com