

## 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 an Integrated Steel Plant

A steel plant runs 80–150 HT motors from 1–15 MW across mill drives, blowers, fans, pumps, and compressors. Bearing temperatures of 90–110°C are routine; ordinary lithium and lithium-complex greases liquefy and bleed at this duty, migrating along the shaft into stator windings. Insulation softens, partial discharge initiates, and the motor fails — often attributed to 'insulation ageing' when the root cause is grease contamination. SUPERQUIET 100 holds structure at HT motor operating temperature and does not migrate.

### Part A — Annual Cost of HT Motor Failures — 5 MTPA Plant — 80–150 HT Motors

- **HT motor failure rate:** 3–8% annual failure rate across the HT motor fleet; 20–40% of failures are lubricant-attributable — 2–5 preventable failures/year.
- **Motor replacement / rewind:** ₹1–2.5 cr/year. 1–5 MW HT motor costs ₹25–80 lakh; rewind ₹8–25 lakh + 4–8 weeks. Large mill drives and blowers run higher.
- **Re-greasing labour:** ₹15–25 lakh/year. HT motor re-greasing is scheduled, documented, and requires specialist labour.
- **Drive train downtime:** ₹3–10 cr/year — the dominant cost. Mill drive, BF blower, and main ID fan HT motor failures halt production lines; no advance warning on most failures.
- **Total:** ₹4.5–13 cr/year per 5 MTPA plant. Scales ~2× at 10 MTPA. A true synthetic non-migrating grease eliminates the grease-migration failure mode and addresses ₹1.5–6 cr/year.

### Part B — HT Motor Applications

- **Hot Strip / Plate Mill** — main drive HT motors (work roll, backup roll, edger); coiler drive motors; descaling pump HT motors.
- **Cold Rolling Mill** — tandem mill main drive motors; tension reel drive motors; skin pass mill drive motors.
- **Bar / Rod / Section Mill** — stand drive HT motors; cooling bed drive motors; shear drive motors.
- **Blast Furnace** — BF blower main motor (often 10–20 MW); top gas booster motor; stock house conveyor motors.
- **Steel Melting Shop (BOF / EAF)** — primary dedusting ID fan motors; secondary dedusting fan motors; EAF melt shop crane motors.
- **Continuous Caster** — caster auxiliary drive motors; mould cooling pump motors; secondary spray pump motors.
- **Sinter Plant** — sinter machine drive motors; sinter ID fan motors; ESP booster fan motors.
- **Coke Oven** — COG booster motors; quench tower pump motors; by-product plant compressor motors.
- **Captive Power Plant** — BFP motor; CEP motor; CW pump motors; ID/FD/PA fan motors; coal mill motors.
- **Water Utilities** — main CW pump motors; raw water pump motors; fire water jockey pump motors.
- **Compressed Air & Oxygen** — plant air compressor motors; oxygen plant compressor motors; nitrogen plant motors.
- **Cranes & Heavy Handling** — ladle crane hoist and trolley motors (HT); charging crane main motors.

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

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