

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 Cement Plants and Grinding Circuits

Cement plants run HT motors on every major drive — kiln main drive, raw mill, cement mill, coal mill, preheater and kiln ID fans, and cooler fans. Motor duty is continuous at high load; bearing temperatures run 95–115°C. Ordinary grease liquefies and migrates into windings; kiln drive motor failure halts clinker production at ₹4–8 cr/day. SUPERQUIET 100 holds film integrity at HT motor operating temperature without bleed or migration.

Part A — Annual Cost of HT Motor Failures — 5 MTPA Plant — 40–70 HT Motors

- **HT motor failure rate:** 3–7% annual; 25–40% of failures are lubricant-related — 1.5–4 preventable failures/year per plant.
- **Motor replacement / rewind:** ₹70 lakh–1.8 cr/year. Kiln main drive, raw mill, and cement mill HT motors are 2–8 MW and ₹35 lakh–1.2 cr each.
- **Re-greasing + condition monitoring:** ₹10–18 lakh/year. Cement majors increasingly use PD / tan-delta online monitoring on critical HT motors.
- **Kiln / mill downtime:** ₹2–5 cr/year — the dominant cost. Kiln main drive motor failure halts production; raw mill or cement mill motor failure derates the kiln within 24 hrs.
- **Total:** ₹3–7.5 cr/year per plant. A true synthetic non-migrating grease addresses ₹1–3 cr/year. Second-highest-conviction application after steel.

Part B — HT Motor Applications

- **Kiln Drive** — kiln main drive HT motor; kiln auxiliary drive motor (for hot kiln stalls).
- **Raw Mill** — raw mill main drive motor; raw mill fan motor; raw mill classifier motor.
- **Cement Mill** — cement mill main drive motor; separator fan motor; cement mill fan motor.
- **Coal Mill** — coal mill main drive motor; coal mill fan motor.
- **Pre-heater & Calciner** — pre-heater ID fan motor; calciner fan motor; kiln ID fan motor (largest HT motor on many plants).
- **Clinker Cooler** — cooler fan motors; cooler drive motor; cooler ESP fan motor.
- **Bulk Material Handling** — stacker-reclaimer HT drive motors; long conveyor head pulley motors.
- **WHRS / Captive Power Plant** — BFP motor; CEP motor; CW pump motor; boiler fan motors.
- **Crushing** — limestone primary crusher motor; secondary impact crusher motor; hammer mill motor.
- **Utilities & Compressors** — plant air compressor motors; process water pump HT motors.
- **Alumina / Non-Ferrous Grinding** — bauxite mill HT motor; SAG mill HT motor; ball mill HT motor (downstream / ore concentrators).
- **Pollution Control** — main bag house fan motor; kiln electrostatic precipitator booster motors.

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

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