

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 Refineries and Petrochemical Complexes

Refineries and petchem complexes run HT motors on every major pump, compressor, blower, and fan. API 541 / IEEE 841 HT motors on FCC main air blowers, compressor trains, BFPs, and cooling water pumps operate continuously at 95–115°C bearing temperature. API specifications increasingly call for non-migrating synthetic grease to prevent winding contamination. Motor failure in an API unit is a reportable event with insurance and regulatory consequences. SUPERQUIET 100 meets the performance envelope.

Part A — Annual Cost of HT Motor Failures — 15 MMTPA Refinery — 80–140 HT Motors

- **HT motor failure rate:** 2–4% annual on API-spec fleet; 30–45% lubricant-attributable — 1.5–4 preventable failures/year.
- **Motor replacement / rewind:** ₹1–2.5 cr/year. FCC main air blower motor ₹1.5–4 cr; compressor train motors ₹80 lakh–2 cr; BFP motors ₹60 lakh–1.5 cr.
- **Re-greasing + monitoring:** ₹15–25 lakh/year. API monitoring programmes include grease sampling and PD testing.
- **Unit NPT / flaring:** ₹5–12 cr/year — the dominant cost. FCC main air blower motor failure trips the unit; compressor train motor failure halts downstream processing.
- **Total:** ₹6.2–15 cr/year per refinery. A true synthetic non-migrating grease with API-aligned spec addresses ₹2–6 cr/year.

Part B — HT Motor Applications

- **FCC Unit** — FCC main air blower motor (flagship HT motor, 10–20 MW); slurry pump motor; fractionator reflux pump motor.
- **Crude & Vacuum Units (CDU / VDU)** — crude charge pump motor; desalter pump motor; overhead pump motors; reflux pump motors.
- **Hydrocracker / Hydrotreater** — recycle gas compressor motor; charge pump motor; wash water pump motor.
- **Reformer / Isomerisation** — reformer recycle gas compressor motor; regeneration blower motor.
- **Sulphur Recovery (SRU)** — SRU main blower motor; tail gas blower motor; incinerator fan motor.
- **Utilities & Boiler** — BFP motor; cooling tower fan motor; CW pump motor; boiler fan motors.
- **Compressor Plant** — plant air compressor motors; instrument air compressor motors; hydrogen recycle compressor motors.
- **Tank Farm & Jetty** — product transfer pump motors; loading arm pump motors; jetty firewater pump motors.
- **Petrochem Cracker** — charge gas compressor motor (10–30 MW); propylene refrigeration compressor motor; ethylene refrigeration compressor motor.
- **ETP** — activated sludge aeration blower motor; biotreater recirculation pump motor.

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

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