

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 Non-Ferrous Smelters (Aluminium, Copper, Zinc)

Non-ferrous smelters run large HT motors on rectifier transformer cooling, compressor plants, alumina grinding, GTC booster fans, pot line rectifier auxiliaries, cast house drives, and downstream rolling mills. Atmospheres are aggressive — fluoride vapour in aluminium smelters, acid mist in copper and zinc tankhouses. Grease migration into windings combined with corrosive vapour accelerates insulation failure. SUPERQUIET 100 is formulated for this combined stress.

Part A — Annual Cost of HT Motor Failures — Smelter + Refinery Complex — 40–80 HT Motors

- **HT motor failure rate:** 3–6% annual; 30–45% lubricant-attributable in acid/fluoride atmospheres — 2–4 preventable failures/year.
- **Motor replacement / rewind:** ₹60 lakh–1.4 cr/year per complex. GTC booster fan motors, calciner drive motors, and rolling mill drive motors are the largest spares.
- **Re-greasing + monitoring:** ₹8–15 lakh/year. Fluoride and acid vapour cut grease life in half on ordinary products.
- **Production loss:** ₹1.5–4 cr/year — the dominant cost. GTC fan motor failure triggers environmental excursion; rolling mill motor failure halts the downstream line.
- **Total:** ₹2.5–7 cr/year per complex. A true synthetic non-migrating grease addresses ₹80 lakh–3 cr/year.

Part B — HT Motor Applications

- **Smelter — Pot Line** — pot line rectifier cooling fan motors; pot line ventilation fan motors; alumina feeding auger motors.
- **Smelter — GTC (Gas Treatment Centre)** — GTC booster fan motor (largest HT motor in smelter ventilation); absorber recirculation pump motor.
- **Smelter — Cast House** — DC caster drive motor; casting wheel drive motor; cast house fume extraction fan motor.
- **Smelter — Anode Plant** — anode baking furnace flue gas fan motor; green anode press drive motor.
- **Alumina Refinery — Grinding** — bauxite mill HT motor; SAG / ball mill drive motor.
- **Alumina Refinery — Digestion & Calcination** — digester circulation pump motor; calciner ID fan motor; calciner FD fan motor.
- **Copper / Zinc Smelter** — converter aisle crane motors; flash smelter concentrate burner motor; matte transfer pump motor.
- **Copper / Zinc Tankhouse** — tankhouse ventilation fan motor; electrolyte circulation pump motor; cathode stripping machine drive motor.
- **Downstream Rolling (Aluminium)** — hot rolling mill main drive motor; cold rolling mill drive motor; cast-rolling mill drive motor.
- **Compressors & Utilities** — plant air compressor motors; oxygen / nitrogen plant compressor motors; CW pump motors.

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

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