

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 Mining Operations

Mining operations run HT motors on hoists (deep shaft), mill drives (SAG, ball, rod), crushers (primary, secondary, tertiary), slurry pumps, and dewatering pumps. Deep shaft hoist motors are safety-critical and DGMS-inspected. Processing mill motors run continuously under high load; dewatering motors operate in corrosive mine water atmosphere. SUPERQUIET 100 protects HT motor windings against both grease migration and atmospheric ingress.

Part A — Annual Cost of HT Motor Failures — Large Mine + Processing Complex — 30–55 HT Motors

- **HT motor failure rate:** 3–5% annual on processing fleet; 25–40% lubricant-attributable — 1–3 preventable failures/year.
- **Motor replacement / rewind:** ₹50 lakh–1.2 cr/year per complex. SAG mill motors (5–15 MW) are the highest-value spares; crusher and hoist motors ₹40–90 lakh.
- **Re-greasing + monitoring:** ₹6–12 lakh/year. DGMS-inspected hoist motors require documented lubrication programmes.
- **Production halt:** ₹1.5–4 cr/year — the dominant cost. SAG mill motor failure halts processing; hoist motor failure is a DGMS-reportable safety event.
- **Total:** ₹2–5.5 cr/year per complex. A true synthetic non-migrating grease addresses ₹70 lakh–2.5 cr/year.

Part B — HT Motor Applications

- **Deep Shaft Hoist** — main hoist drive motor (HT, DGMS-inspected); skip winder motor; man-winder motor.
- **Grinding Mills** — SAG mill drive motor (5–15 MW, flagship HT motor); ball mill drive motor; rod mill drive motor.
- **Crushing** — primary jaw / gyratory crusher motor; secondary cone crusher motor; tertiary impact crusher motor; HPGR motor.
- **Dewatering** — main mine dewatering pump motors (permanent submerged duty); secondary lift pump motors.
- **Slurry & Tailings** — tailings pump motor; cyclone feed pump motor; thickener drive motor.
- **Dragline / Shovel (Open Cast)** — dragline slew drive motor; hoist drum motor; drag motor (electric shovels).
- **Conveyor System** — head pulley drive motor (HT on long conveyors); booster drive motors.
- **Compressor Plant** — plant air compressor motors (for pneumatic drills, instrumentation).
- **Washery** — heavy media drum drive motor; centrifuge drive motor; washery circulation pump motor.
- **Exploration / Development** — diamond drill rig motor; raise-bore machine motor; exploration winder motor.

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