

SL WPG AQUATHERM

India's First and Only Fully Water Resistant Grease to Prevent Pump Failures
Pump Applications in Mining Operations & Coal/Mineral Washeries

Pump bearings at a mine sit in permanent water — pit dewatering, slurry, washery sumps, tailings, dust suppression spray. Ordinary greases wash out in hours. Bearing seizes, pump trips, and the mine floods or production halts.

Part A — Annual Cost of Pump Bearing Failures (10 MTPA Mine + Washery)

- **Bearing life: 3–5 years design → 1–1.5 years actual.** 60–120 extra failures per year across 250–400 wet-zone pumps.
- **Spares + cascade overhaul: ₹50–80 lakh/year.** Failing bearing takes the seal, shaft, and housing — 3× the bearing cost; remote site logistics adds 30%.
- **Labour + energy waste: ₹25–45 lakh/year.** Callouts to remote site, overhaul hours, plus 2–4% higher motor current on contaminated bearings.
- **Downtime: ₹2–5 cr/year — the dominant cost.** Pit dewatering failure can flood the working face; washery trip blocks despatch and railway rake placement.
- **Total: ₹3–6 cr/year.** Higher in monsoon-prone or acidic-water mines. 40–60% grease-preventable → **₹1–3 cr/year addressable** by switching to a proper water-resistant grease.

Part B — Pump Applications

- **Mine Pit Dewatering** — main pit pumps; in-pit booster; sump pumps; portable dewatering sets.
- **Tailings Handling** — tailings transfer; slurry pumps to TSF; decant water return.
- **Washery — Heavy Media** — dense media circulation; HMS cyclone feed pumps.
- **Washery — Wash Water** — clean coal/ore wash spray; rinse pumps.
- **Thickener / Clarifier** — underflow pumps; recirculation; floc dosing.
- **Mine Water Treatment** — neutralisation; lime dosing; sludge transfer (acidic mine water).
- **Dust Suppression** — haul-road; stockyard; crusher house spray pumps.
- **Crusher House** — cooling water; dust suppression; sump pumps.
- **Conveyor Wash-Down** — transfer house wash; sump pumps.
- **Plant Water** — raw water; service water; potable booster.
- **Fire Water** — main, jockey, diesel.
- **Captive Power (where applicable)** — BFP, CEP, CW, ash handling pumps.

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

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

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