

SL WPG AQUATHERM

India's First and Only Fully Water Resistant Grease to Prevent Pump Failures

Pump Applications in a Cement Plant

Pump bearings in a cement plant face cooling tower spray, raw mill water injection, scrubber circulation, quarry dewatering, and dust suppression. Ordinary greases wash out in hours. Bearing seizes, pump trips, kiln efficiency drops.

Part A — Annual Cost of Pump Bearing Failures (5 MTPA Integrated Plant)

- **Bearing life: 3–5 years design → 1.5–2 years actual.** 30–80 extra failures per year across 150–250 wet-zone pumps.
- **Spares + cascade overhaul: ₹30–60 lakh/year.** Failing bearing takes the seal, shaft, and housing — 3× the bearing cost.
- **Labour + energy waste: ₹15–25 lakh/year.** Callouts, overhaul hours, plus 2–4% higher motor current on contaminated bearings.
- **Downtime: ₹1.5–4 cr/year — the dominant cost.** Kiln trip ₹50–80 lakh/day; CHP or CW failure cascades to mills and bagging.
- **Total: ₹2–5 cr/year.** Higher with WHRS and FGD additions. 40–60% grease-preventable → **₹0.8–2.5 cr/year addressable** by switching to a proper water-resistant grease.

Part B — Pump Applications

- **Quarry Dewatering** — mine sump pumps; pit drainage; mobile dewatering sets.
- **Raw Mill** — water injection pumps; coolant pumps.
- **Kiln & Cooler** — shell cooling water; bearing cooling; pre-heater spray pumps.
- **Cement Mill** — water injection pumps for mill temperature control.
- **Cooling Towers** — main CW; ACW; cell circulation.
- **Captive Power Plant** — BFP, CEP, CW, ACW, ash handling, FGD (newer plants).
- **WHRs (Waste Heat Recovery)** — BFP, CEP; condensate transfer.
- **Dust Suppression** — plant-wide spray pumps; stockyard and haul-road sets.
- **Fire Water** — main, jockey, diesel.
- **Effluent / Sumps** — neutralisation; production area sumps; bagging plant washdown.
- **Packing & Despatch** — wash-down sump pumps; rail / road loading area drains.
- **Service Water** — raw water; potable; gland service 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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