

## SL WPG AQUATHERM

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

Pump Applications in a Specialty / Bulk Chemical Plant

Pump bearings in a chemical plant sit in cooling tower mist, scrubber circulation, brine and chilled water service, ETP — and outdoor mounting through monsoon. Ordinary greases wash out in hours. Bearing seizes, pump trips, batch is lost.

### Part A — Annual Cost of Pump Bearing Failures (₹1,000 cr Revenue Mid-Size Complex)

- **Bearing life: 3–5 years design → 1–1.5 years actual.** 60–120 extra failures per year across 200–400 wet-zone pumps.
- **Spares + cascade overhaul: ₹50–90 lakh/year.** Failing bearing takes the seal, shaft, and housing — 3× the bearing cost.
- **Labour + energy waste: ₹25–40 lakh/year.** Callouts, overhaul hours, plus 2–4% higher motor current on contaminated bearings.
- **Downtime: ₹2–6 cr/year — the dominant cost.** Lost batch + cleaning + restart; campaign products and high-value intermediates can multiply this; scrubber trip is a regulatory issue.
- **Total: ₹3–7 cr/year.** Scales with revenue and product mix. 40–60% grease-preventable → **₹1–4 cr/year addressable** by switching to a proper water-resistant grease.

### Part B — Pump Applications

- **Reactor Cooling** — jacket water; condenser cooling; reflux pumps.
- **Cooling Towers** — main CW; ACW; cell circulation.
- **Chilled Water / Brine** — chiller circulation; low-temperature brine for reactor cooling.
- **Vent Gas Scrubbers** — acid scrubber; alkali scrubber; VOC scrubber circulation.
- **Solvent Recovery** — distillation reflux; condensate; transfer pumps in wet service.
- **Steam Boilers** — BFP, CEP; blowdown pumps.
- **Utilities** — raw water; soft water; DM transfer; service water.
- **Tank Farm** — transfer pumps in monsoon-exposed bunds.
- **Fire Water** — main, jockey, diesel.
- **ETP** — neutralisation; biological aerator; sludge transfer; clarifier underflow.
- **ZLD / RO / MEE** — high-pressure RO feed; brine concentrator; condensate.
- **Sumps** — production block, tank farm, utility area.

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

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