

SL WPG AQUATHERM

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

Pump Applications in a Pharma API & Bulk Drug Plant

Pump bearings in an API plant face chilled water and brine service, cooling tower spray, scrubber circulation, large ETPs, and continuous CIP/SIP wash-downs. Ordinary greases wash out in hours. Bearing seizes, pump trips, batch is contaminated.

Part A — Annual Cost of Pump Bearing Failures (200 MT/year API Complex)

- **Bearing life: 3–5 years design → 1–1.5 years actual.** 50–100 extra failures per year across 200–350 wet-zone pumps.
- **Spares + cascade overhaul: ₹40–70 lakh/year.** Failing bearing takes the seal, shaft, and housing — 3× the bearing cost.
- **Labour + energy waste: ₹20–35 lakh/year.** Callouts, overhaul hours, plus 2–4% higher motor current on contaminated bearings.
- **Downtime: ₹1.5–4 cr/year — the dominant cost.** Lost batch + GMP cleaning + revalidation; scrubber trip is a regulatory exposure (CPCB / state PCB).
- **Total: ₹2–5 cr/year.** Note: NSF-H1 food-grade required only inside product-contact zones; 8800 fits all utility, ETP, and outdoor pumps. 40–60% grease-preventable → **₹0.8–2.5 cr/year addressable.**

Part B — Pump Applications

- **Cooling Towers** — main CW; ACW; cell circulation.
- **Chilled Water / Brine** — chilled water circulation; low-temperature brine pumps for cryogenic reactors.
- **Reactor Utility** — jacket cooling water; condenser cooling; vent condenser pumps.
- **Steam Boilers** — BFP, CEP; blowdown pumps.
- **Solvent Recovery** — distillate; condensate; reflux pumps.
- **Vent Gas Scrubbers** — acid scrubber; alkali scrubber; VOC scrubber circulation.
- **Utilities** — raw water; soft water; DM transfer; service water.
- **HVAC / Cleanroom Auxiliary** — AHU and chiller plant cooling water (utility side).
- **Fire Water** — main, jockey, diesel.
- **ETP** — neutralisation; multi-effect evaporator (MEE); biological aerator; sludge transfer.
- **ZLD / RO** — high-pressure RO feed; brine concentrator; permeate transfer.
- **Sumps** — production block; tank farm; utility area.

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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