

## SL WPG AQUATHERM

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

### Pump Applications in a Pulp & Paper Mill

Pump bearings in a paper mill live in water — stock prep, white water, vacuum seal, shower lines, continuous wash-down. Ordinary greases wash out in hours. Bearing seizes, pump trips, machine breaks.

#### Part A — Annual Cost of Pump Bearing Failures (500 TPD Integrated Mill)

- **Bearing life: 3–5 years design → 1–1.5 years actual.** 100–200 extra failures per year across 400–700 wet-zone pumps.
- **Spares + cascade overhaul: ₹80 lakh – 1.4 cr/year.** Failing bearing takes the seal, shaft, and housing — 3× the bearing cost.
- **Labour + energy waste: ₹35–60 lakh/year.** Callouts, overhaul hours, plus 2–4% higher motor current on contaminated bearings.
- **Downtime: ₹3–10 cr/year — the dominant cost.** Paper machine break costs ₹3–8 lakh/hour; recovery boiler BFP or fan pump trip can shut the entire line.
- **Total: ₹4–8 cr/year.** 40–60% grease-preventable → **₹1.5–4 cr/year addressable** by switching to a proper water-resistant grease.

#### Part B — Pump Applications

- **Stock Preparation** — pulper discharge pumps; refiner feed pumps; stock chest transfer pumps.
- **Paper Machine — Approach Flow** — fan pumps (largest, most critical); white water circulation; deculator and headbox feed pumps.
- **Paper Machine — Wet End** — broke pumps; shower water pumps; press section couch pit pumps.
- **Vacuum System** — liquid ring vacuum pump seal water; separator drain pumps.
- **Recovery Boiler & Chemical Recovery** — BFP, CEP; black liquor circulation pumps; smelt dissolving tank pumps.
- **Evaporator Plant** — concentrator feed pumps; condensate transfer pumps.
- **Bleach Plant** — washer feed and filtrate pumps; chemical metering pumps.
- **Causticizing & Lime Kiln** — green liquor, white liquor and mud filtrate pumps.
- **Wood Yard / Chip Handling** — debarker spray pumps; washer pumps.
- **Water Utilities** — raw water, fresh water, cooling tower, fire water pumps.
- **Effluent Treatment** — primary clarifier, aerator, sludge transfer pumps (very large in pulp mills).
- **Captive Power Plant** — BFP, CEP; ash handling pumps.

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

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