

## SL WPG AQUATHERM

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

Pump Applications in an Integrated Steel Plant

Pump bearings in a steel plant are always wet — gland leakage, seal weep, wet pits, wash-downs. Ordinary greases wash out in hours. Bearing seizes, pump trips, process stops.

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

- **Bearing life: 3–5 years design → 1–1.5 years actual.** 150–250 extra failures per year across 500–1,000 wet-zone pumps.
- **Spares + cascade overhaul: ₹1.2–1.8 cr/year.** Failing bearing takes the seal, shaft, and housing with it — 3× the bearing cost.
- **Labour + energy waste: ₹45–75 lakh/year.** Callouts, overhaul hours, plus 2–4% higher motor current on contaminated bearings.
- **Downtime: ₹5–15 cr/year — the dominant cost.** 5–15 events/year where standby fails or cascade occurs; CW, BFP, or descaling pump trips hit tens of crores each.
- **Total: ₹7–12 cr/year.** Scales ~2× at 10 MTPA. 40–60% grease-preventable → **₹2–8 cr/year addressable** by switching to a proper water-resistant grease.

### Part B — Pump Applications

- **Hot Strip Mill / Plate Mill** — descaling HP pumps (150–250 bar); roll cooling pumps; scale pit pumps.
- **Continuous Caster** — mould cooling pumps; secondary spray pumps; scale pit pumps.
- **Cold Rolling Mill** — emulsion circulation pumps; roll coolant pumps.
- **Pickling Line** — acid circulation pumps; rinse water pumps.
- **Blast Furnace** — slag granulation pumps (INBA / RASA); top gas scrubber pumps; stove cooling pumps.
- **Steel Melting Shop (BOF / EAF)** — wet GCP scrubber pumps; hood cooling pumps.
- **Coke Oven** — quench tower spray pumps; flushing liquor pumps.
- **Sinter Plant** — wet GCP scrubber pumps; dust suppression pumps.
- **Galvanizing / Coating Line** — quench circulation pumps; chemical treatment pumps.
- **Water Utilities** — main CW pumps; ACW / DMCW pumps; fire water pumps; cooling tower basin pumps.
- **Effluent Treatment** — sludge transfer pumps; sump pumps across mill bays and turbine hall.
- **Captive Power Plant** — BFP and CEP; FGD recirculation pumps; ash handling (HCSD) pumps.

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

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