

## SYNTHOX HT

*India's First and Only True Synthetic · High Moly · Non-Melting Grease with Highest Anti-Wear and Anti-Friction Capabilities to Prevent Failures in Heavy-Duty Fans and Blowers*

### Fan & Blower Applications in Specialty & Bulk Chemical Plants

Specialty chemical plants run hot fans on reactor exhaust, scrubber circulation, spray dryers, incinerators, thermic fluid heater combustion, and ETP aeration — fewer fans per site than steel or cement, but each fan typically supports a single process line whose shutdown is immediate. Bearings face solvent vapour, acid mist, alkali carryover, and 150–180°C thermal duty. SYNTHOX HT's chemical compatibility and thermal stability match the multi-campaign reality of specialty chemical manufacturing.

### Part A — Annual Cost of Fan Bearing Failures (Mid-Large Plant, ₹500–2,500 cr turnover)

- **Fan bearing life:** ordinary high-temp grease delivers 1.5–2.5 years on hot process fans against 4–5 year design life.
- **Bearing + overhaul spares: ₹15–30 lakh/year.** Chemical-exposed bearings often show seal, sleeve, and shaft damage on failure.
- **Re-greasing labour: ₹6–12 lakh/year.** Higher in ZLD and incinerator-equipped plants.
- **Process line downtime: ₹80 lakh–2.5 cr/year — the dominant cost.** Scrubber or dryer fan failure halts specific production lines; incinerator fan failure triggers consent excursion risk.
- **Total: ₹1–3.8 cr/year per plant.** A non-melting synthetic moly grease delivers 2–3× bearing life and addresses ₹40 lakh–1.5 cr/year.

### Part B — Fan & Blower Applications

- **Reactor & Process** — reactor off-gas exhaust fan bearings; distillation column vent fan bearings; crystalliser exhaust fan bearings.
- **Scrubber & Vent Gas** — acid scrubber fan bearings; alkali scrubber fan bearings; solvent recovery vent fan bearings; VOC scrubber fan bearings.
- **Drying & Solids Handling** — spray dryer ID fan bearings; flash dryer fan bearings; fluid bed dryer exhaust fan bearings; bag filter fan bearings.
- **Incinerator / Thermal Oxidiser** — incinerator FD fan bearings; ID fan bearings; regenerative thermal oxidiser (RTO) booster fan bearings.
- **Thermic Fluid Heater** — combustion FD fan bearings; ID fan bearings; heater booster fan bearings.
- **Captive Boiler (Coal / Biomass)** — boiler FD, ID, and PA fan bearings; mill seal air fan bearings.
- **ETP / ZLD** — aeration blower bearings; MEE vapour fan bearings; sludge dryer exhaust fan bearings.
- **Cooling Tower** — induced-draft fan gearbox bearings; forced-draft fan hub bearings.
- **Solvent Recovery** — condenser vent fan bearings; still vapour extractor fan bearings.
- **Warehouse & Vent** — solvent warehouse exhaust fan bearings; drum storage vent fan bearings.

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

Contact: [technical@stanvac.com](mailto:technical@stanvac.com) · [www.stanvac.com](http://www.stanvac.com)