

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 Glass Manufacturing

Float glass furnaces run fan bearings in some of the highest continuous temperatures in Indian industry — 180–220°C on regenerator fans, combustion air blowers, and batch plant dust collector fans. And a float glass furnace cannot be stopped: molten glass in the tank means fan downtime is measured in hours before catastrophic cost. SYNTHOX HT's non-melting thickener and thermal stability are suited precisely to the continuous-high-temperature duty a float glass line demands.

Part A — Annual Cost of Fan Bearing Failures (Float Glass Line 600–900 TPD)

- **Fan bearing life:** ordinary high-temp grease delivers 1–1.5 years on regenerator and combustion fans against 4–5 year design life — this is the most thermally stressed application on this list.
- **Bearing + overhaul spares:** ₹15–30 lakh/year per float line. Large spherical roller bearings on regenerator fans are high-value spares.
- **Re-greasing labour:** ₹8–14 lakh/year. Very short re-lube intervals on ordinary grease in this service.
- **Production loss + campaign risk:** ₹3–8 cr/year — the dominant cost. Furnace fan failure mid-campaign forces emergency repair; in extreme cases, unplanned furnace cool-down damages the tank and shortens campaign life by months.
- **Total:** ₹3.3–8.8 cr/year per float line. A non-melting synthetic moly grease with 220°C+ thermal stability delivers 2–4× bearing life and addresses ₹1.5–4 cr/year.

Part B — Fan & Blower Applications

- **Furnace** — regenerator fan bearings; combustion air blower bearings; reversal valve actuator fan bearings.
- **Batch Plant** — batch plant dust collector fan bearings; silo vent fan bearings; weighing bay exhaust fan bearings.
- **Annealing Lehr** — Lehr circulation fan bearings; cooling zone fan bearings; Lehr exhaust fan bearings.
- **Tin Bath & Float Section** — tin bath hood exhaust fan bearings; protective atmosphere circulation fan bearings.
- **Cutting & Handling** — cut-off dust extraction fan bearings; cullet conveyor dust collector fan bearings.
- **Cullet Handling** — cullet crusher dust fan bearings; cullet bag filter fan bearings.
- **Container / Moulded Glass** — forehearth cooling fan bearings; IS machine cooling fan bearings; annealing Lehr fan bearings.
- **Fibre Glass (where applicable)** — forming section combustion fan bearings; curing oven fan bearings.
- **Utilities** — cooling tower fan gearbox bearings; boiler auxiliary fan bearings (where coal / gas boilers present).
- **Coating Line (Solar / Low-E)** — CVD section exhaust fan bearings; deposition chamber vent fan bearings.

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

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