

## SL WR2 WIRETHERM

*India's First and Only Penetrative Synthetic Lubricant for Enhancing Wire Rope Life and Safety*

### Wire Rope Applications in a Thermal Power Plant

Thermal power plants run dozens of cranes and grab systems on wire rope — TG hall, coal handling, ash handling, intake gates, and grab unloaders. Coal yard ropes run in abrasive dust and dust-suppression spray; TG hall ropes handle critical-lift rotor and casing work during outages. Topical grease attracts coal dust, jams sheaves, and obscures inspection. WIRETHERM's dry penetrative film is ideal for dust-laden outdoor duty.

### Part A — Annual Cost of Wire Rope Failures (660 MW Unit)

- **Rope life:** coal handling grab ropes and intake gate ropes typically reach 40–55% of design life with topical grease.
- **Rope spares: ₹50 lakh–1 cr/year per 660 MW unit.** Coal yard grabs consume rope fastest; TG hall ropes are high-value, low-count.
- **Rope change + inspection labour: ₹20–40 lakh/year.** Grab rope change is frequent and manual.
- **Outage risk: ₹1–4 cr/year — the dominant cost.** CHP grab failure restricts bunker filling and can force unit load reduction; TG hall rope failure during an outage delays the critical path.
- **Total: ₹1.7–5.4 cr/year per 660 MW unit.** A penetrative synthetic extends rope life 2–3× and addresses ₹60 lakh–2 cr/year. Dust-rejecting dry film is the main engineering advantage.

### Part B — Wire Rope Applications

- **TG Hall** — turbine rotor lift rigging ropes; generator stator handling ropes; overhead EOT ropes.
- **Boiler & ESP** — drum hoist ropes; ESP electrode lift ropes; flue duct maintenance rigging.
- **Coal Handling Plant (CHP)** — grab unloader ropes; stacker-reclaimer ropes; wagon tippler haul ropes; track hopper ropes.
- **Ash Handling** — ash silo maintenance ropes; bottom ash grab ropes.
- **FGD & Emission Control** — absorber maintenance ropes; limestone silo ropes.
- **Water Intake** — CW intake gate hoist ropes; trash rack screen ropes.
- **Cooling Tower** — fan gearbox removal crane ropes; fill maintenance rigging.
- **Fuel Yard (Liquid / Gas plants)** — tank farm maintenance cranes; jetty unloader ropes.
- **Switchyard** — transformer handling crane ropes; breaker lifter ropes.
- **BOP & Outage Rigging** — shutdown crane ropes; temporary lifting gantry ropes.

**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)