

SL WR2 WIRETHERM

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

Wire Rope Applications in a Pulp & Paper Mill

Paper mills run wire rope in a continuously steamy, wet, paper-dust-laden atmosphere — the worst environment for topical grease, which crusts, jams sheaves, and falls onto product. Ropes fail from internal corrosion long before outer wires show damage. WIRETHERM penetrates to the core, dries to a non-flinging film, and keeps ropes visible for inspection.

Part A — Annual Cost of Wire Rope Failures (600 TPD Mill)

- **Rope life:** topical-greased ropes on log handling and machine hall cranes typically reach 50–60% of design life.
- **Rope spares:** ₹60 lakh–1.2 cr/year. 25–50 rope changes/year across wood yard, machine hall, winder, and ETP cranes.
- **Inspection + cleaning labour:** ₹25–40 lakh/year. Plus the cost of cleaning grease fallout off parent reels and finished rolls.
- **Downtime + product contamination:** ₹1.5–4 cr/year — the dominant cost. A machine hall crane rope failure stops the paper machine; grease drip contaminates coated and tissue grades.
- **Total:** ₹2.3–5.6 cr/year. A penetrative synthetic extends rope life 2–3× and addresses ₹80 lakh–2.5 cr/year. Dry film eliminates product contamination entirely.

Part B — Wire Rope Applications

- **Wood Yard / Log Handling** — log crane ropes; chipper feed crane ropes; bark handling crane ropes.
- **Pulp Mill** — digester charging crane ropes; brownstock handling ropes; bale crane ropes.
- **Bleach Plant** — chemical bag handling ropes; tower maintenance rigging ropes.
- **Paper Machine Hall** — reel spool handling crane ropes; parent roll cranes; felt change rigging.
- **Winder & Rewinder** — jumbo roll handling ropes; winder hoist ropes.
- **Finishing & Sheeter** — ream crane ropes; pallet hoist ropes.
- **Recovery Boiler** — soot blower hoist ropes; boiler maintenance rigging ropes.
- **ETP** — aerator and clarifier maintenance crane ropes; sludge skip ropes.
- **Captive Power Plant** — TG hall crane ropes; coal / biomass handling grab crane ropes.
- **Finished Goods Warehouse** — bale crane ropes; truck loading gantry ropes.

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Contact: technical@stanvac.com · www.stanvac.com