

SL WR2 WIRETHERM

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

Wire Rope Applications in Refinery & Petrochemical Complexes

Refineries run wire rope on tank farm cranes, process tower maintenance cranes, jetty cranes, and firewater monitor ropes, all operating in hydrocarbon vapour, sulphur fume, and saline coastal atmosphere. Critical-lift maintenance cranes handle reactor heads, catalyst charges, and heat exchanger bundles — rope failure during a turnaround extends the critical path. WIRETHERM's non-flinging dry film also reduces hydrocarbon contamination risk.

Part A — Annual Cost of Wire Rope Failures (15 MMTPA Refinery / Integrated Petrochem)

- **Rope life:** jetty and tank farm ropes at coastal sites typically reach 45–60% of design life on saline + vapour corrosion.
- **Rope spares: ₹60 lakh–1.4 cr/year.** High-value critical-lift ropes (reactor handling, heat exchanger bundle pull) compound the count.
- **Change-out + NDT labour: ₹20–40 lakh/year.** Rope change on tall process towers requires scaffolding and crane support.
- **Turnaround delay risk: ₹2–6 cr/year — the dominant cost.** Critical-lift rope failure during a turnaround extends unit downtime directly; cost per day on a hydrocracker or FCC unit is in crores.
- **Total: ₹2.8–7.8 cr/year.** A penetrative synthetic with vapour/corrosion protection extends rope life 2–3× and addresses ₹1–3.5 cr/year. Reduces hydrocarbon contamination on critical-lift components.

Part B — Wire Rope Applications

- **Process Units (CDU/VDU/FCC/HCU)** — column maintenance crane ropes; reactor head handling ropes; heat exchanger bundle pull winch ropes.
- **Catalyst Handling** — catalyst charge hopper crane ropes; spent catalyst skip ropes.
- **Tank Farm** — tank roof maintenance crane ropes; manway access rigging ropes.
- **Jetty & Marine Terminal** — jetty crane ropes; loading arm counterweight ropes; mooring winch ropes.
- **Fire & Safety** — fire water monitor elevation ropes; foam system maintenance ropes.
- **Utilities** — cooling tower maintenance crane ropes; boiler house crane ropes.
- **Sulphur Block / SRU** — sulphur pit crane ropes; molten sulphur loading arm ropes.
- **Compressor & Rotating Equipment** — compressor rotor lift ropes; turbine casing lift ropes.
- **Flare & Stack** — flare stack maintenance rigging ropes; elevator guide ropes.
- **Warehouse & Shutdown** — shutdown rigging ropes; pipe rack maintenance ropes.

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