

## SL123R UNITHERM

India's First and Only True Synthetic · High Load · High Temperature Grease to Prevent Failures in Gear Couplings and Heavy-Duty Drives

### Gear Coupling & Heavy Drive Applications in Non-Ferrous Smelters (Aluminium, Copper, Zinc)

Non-ferrous smelters run load-cycled drives in corrosive atmospheres — pot line crane drives face fluoride-rich hot air; cast house tilting drives handle molten metal pouring loads; anode baking furnace conveyor drives run hot and dusty; rolling mill drive spindles in downstream aluminium plants carry heavy rolling loads. Ordinary EP grease fails under the combination; SL123R UNITHERM addresses the full stress profile.

### Part A — Annual Cost of Gear Coupling & Drive Failures — Smelter + Tankhouse Complex

- **Coupling / drive life:** ordinary EP grease delivers 1–2 years on smelter crane and cast house drive couplings against 5+ year design life.
- **Coupling + drive spares: ₹30–55 lakh/year per complex.** Fluoride and acid atmospheres compound corrosion damage to shafts and seals.
- **Maintenance + alignment: ₹10–18 lakh/year.** Tankhouse and pot line drive work is production-critical.
- **Production loss: ₹1.5–3.5 cr/year — the dominant cost.** Pot line crane drive failure delays anode change; rolling mill spindle failure halts the downstream line.
- **Total: ₹2–5 cr/year per complex.** A true synthetic high-load, high-temperature grease delivers 3–4× drive life and addresses ₹70 lakh–2.5 cr/year.

### Part B — Gear Coupling & Heavy Drive Applications

- **Aluminium Pot Line** — anode change crane drives (PTM); crust breaker drives (ATM); pot line travel drive couplings.
- **Aluminium Cast House** — tilting furnace drive coupling; DC caster drive coupling; ingot piling crane drives.
- **Aluminium Anode Plant** — baking furnace conveyor drive couplings; paste plant mixer drive coupling; green anode press drive.
- **Aluminium Downstream (Rolling / Extrusion)** — rolling mill work roll drive spindles; rolling mill backup roll drive couplings; extrusion press drive couplings.
- **Copper Smelter** — converter tilting drive coupling; matte ladle crane drives; slag pot car drive couplings.
- **Copper Tankhouse** — cathode stripping machine drive; tankhouse crane drive couplings; anode handling drive.
- **Zinc Roasting & Leaching** — roaster drive coupling; leach tank agitator drive; filtration drive couplings.
- **Zinc Tankhouse & Cast** — cathode stripping drive; cell maintenance crane drives; zinc casting wheel drive coupling.
- **Raw Materials & Concentrate** — concentrate grab crane drive couplings; alumina silo drives; bauxite handling conveyor drives.
- **Captive Power Plant** — TG shaft coupling; BFP drive couplings; ID/FD/PA fan drive couplings.

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

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