

# PROGUARD LIST

## Extreme-Pressure Multipurpose Grease

### Product description:

**PROGUARD LI ST** is a high quality multipurpose extreme-pressure (EP) grease based on lithium hydroxy special soap and high viscosity index base oils. It contains antioxidants, rust and corrosion inhibitors and EP/AW additives as well as water resistance and mechanical stability improvers. The product is a state-of-the-art multipurpose EP grease which can be used in various applications within given temperature limits.

## Features:

- **Good Mechanical Stability** – This is particularly important where poor mechanical stability can lead to grease softening with subsequent loss of lubrication performance and leakage.
- **Excellent Water Resistance and Rust Inhibiting Properties** – formulated to offer high levels of resistance to water wash-out. Have a strong affinity with metal and have the ability to protect bearing surfaces against corrosion, even when the grease is contaminated with water.
- **High Load Carrying Capacity** – Contain special extreme-pressure additives which enable them to withstand heavy and shock loads without failure of the lubricant film.
- **Excellent oxidation Stability** – Specially selected base oil components have excellent oxidation resistance. Their consistency will not alter in storage and they withstand high operating temperatures without hardening or forming bearing deposits
- **Wide Range of Applications.**

## Applications:

**PROGUARD LI ST** is recommended for steel industry. It's high quality multipurpose extreme pressure grease that can be used in both industrial and automotive application. It is suitable to lubricate and seal plain and rolling bearings operated under high pressures, shock loads and vibrations in the application temperature range from -30 °C to +140 °C. It comes with special anti-wear additives to stand against the steel industry challenges.

It could used also for other heavy industry like (cement, Steel, Ceramic, Paper ,Cartons , feed, Fertilizer ,Glass, mining ,oil & gas, and etc...)

## Health, Safety and Environment:

- Normal safety precautions (gloves and safety goggles) Should be employed
- Avoid eye and prolonged skin contact.
- Wash thoroughly after handling material.
- Don't discharge used oil in drains, dispose to an authorized used oil collection point

### Storage Conditions:

- Should be stored sealed under normal conditions.
- Shelf life in original package and at room temperature is 3 years

### Packing Available in:

- 15 Kg                      - 180 Kg

## Physical properties:

PROGUARD LI ST	Method	1	2	3	0	00	000
Appearance	Visual	Smooth and homogenous					
Color	Visual	Yellow/light brown					
Soap Type	-	Lithium					
Base Oil	-	Mineral					
Penetration(1/10mm)	ASTM D217	310-340	265-295	220-250	355-385	400-430	445-475
NLGI NO	ASTM D217	1	2	3	0	00	000
Dropping Point, °C	ASTM D2265	193			190		
Bearing Rust Test @ 52 °C	DIN 51 802	Passes					
Four Ball Ep,kg	ASTM D2596	350					
Four Ball AW,mm	ASTM D2266	<0.5					
Timken OK Load ,kg	ASTM D2509	40					
Oil Sep . @ 50h &150 °C ,%	ASTM D6184	<2					
Cop. Cor. @24h & 100 °C	ASTM D4048	1a					
Base Oil ,Viscosity @ 40 °C, , mm²/s	ASTM D445	220					
Base Oil ,Viscosity @ 100 °C , , mm2/s	ASTM D445	16-20					
Water Content % vol max.	ASTM D 95	0.1					
Washout Test	IP 220 MOD	0.0					
Emcor Salt Water	ISO 11007	0/0					
Water Washout	ASTM D1264	Max.2					
Roll Stability 50 hr at 80°C	ASTM D 1831	295					
Operation temperature range	-	-30/140					

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