

## Extreme Pressure Lithium-Based Grease

**IRANOL LIMA EP**, as a multi-purpose lithium soap base grease with high mechanical load-bearing capacity, is formulated using mineral base oil, lithium hydroxy stearate, and appropriate additives for high-pressure applications. It is designed for various industrial lubrication needs.

### ► Performance Levels

- **INSO 5611**

### ► Applications

- Lubrication of bearings and ball and flat joints of vehicles.
- Lubrication of chassis, gears and gearboxes.
- Electric motors, Compressors, pumps and conveyor wheel systems.
- Suitable for general use in industries, transportation, agriculture, and road equipment.

### ► Advantages

- High-pressure resistance
- High resistance to water washout.
- Excellent mechanical and thermal stability.
- Oxidation resistance.
- Operating Temperature Range: -20°C to +120°C.

| Characteristic                                                                  | NLGI 1  | NLGI 2  | NLGI 3  | Test method ASTM |
|---------------------------------------------------------------------------------|---------|---------|---------|------------------|
| Thickener base                                                                  | Lithium | Lithium | Lithium | D-3340           |
| Weight loss on heat, Wt%                                                        | 1       | 0.5     | 0.5     | D-972            |
| Dropping point, °C                                                              | 185     | 185     | 185     | D-566            |
| Number of hard particles                                                        | 10      | 10      | 10      | D-1404           |
| Worked penetration @ 25 °C, 0.1mm                                               | 310-340 | 265-295 | 220-250 | D-217            |
| Water washout resistance @ 80 °C, Wt%                                           | 5       | 5       | 5       | D-1264           |
| Oxidation resistance @ 99 °C, pressure drop after 100 hours, kg/cm <sup>2</sup> | 0.5     | 0.5     | 0.5     | D-942            |
| Corrosion prevention property @ 52 °C, 48 hours                                 | PASS    |         |         | D-1743           |

Typical physical characteristics

### \* Packaging

- Container 35 lb
- Drum 180 kg