



PRISTA® LITHIUM EP

GREASES

Description and Application

Multipurpose antifriction **Prista® Lithium EP** greases are manufactured by thickening an appropriate mineral base oil with a lithium 12-hydroxystearate soap and a package of proper additives.

Prista® Lithium EP greases are formulated to lubricate and seal plain and rolling bearings, hinge joints and other mechanisms operating under high pressures, shock loads and vibrations. They are recommended for multipurpose lubrication of industrial machinery and equipment operating under heavy loads and adverse environment, including long-term shock loads, high speeds, high humidity and very wide temperature range. These greases are used for lubrication of plain brass and babbitt radial bearings in rolling mills, screws and nuts of rollers, scissors, presses and cutting lines of steel rolling machines and for other metalworking applications. They are also suitable for big roller bearings in mining, construction and marine machinery and equipment operating under adverse conditions.

Operating temperature range of **Prista® Lithium EP** greases is:

- from -30°C to +120°C – for **Prista® Lithium EP 1**
- from -30°C to +130°C – for **Prista® Lithium EP 2**
- from -25°C to +130°C – for **Prista® Lithium EP 3**

Benefits

- very good adhesion properties
- improved EP properties
- high roll stability and steady consistency in heavy duty operations
- non-corrosive to non-ferrous metals and steel
- water washout resistance
- proper protection against rust formation

Specifications

| NLGI | 1 | 2 | 3 |
|----------------------|--------------------|---|---|
| ISO 6743/9 | ISO-L-XCCHB 1(2,3) | | |
| DIN 51502, DIN 51825 | KP 1(2,3) K-30 | | |
| BDS | 16507- 86 | | |

Typical Characteristics

| Parameter | Test Method | Typical Value | | |
|-------------------------------------------------------------|-------------|---------------|--------|--------|
| | | NLGI 1 | NLGI 2 | NLGI 3 |
| Oil type | | mineral | | |
| Thickener | | lithium soap | | |
| Color | Visual | yellow-brown | | |
| Kinematic Viscosity of base oil at 40°C, mm ² /s | EN ISO 3104 | 100 | | |
| Cone Penetration, worked at 25°C, 0.1 mm | ISO 2137 | 320 | 280 | 240 |
| Dropping Point, °C | ISO 2176 | 180 | 190 | 200 |
| Oil Separation - separated oil at 40°C, 42h, % | IP 121 | < 3 | | |
| Dynamic Rust Test (EMCOR) in distilled water | ISO 11007 | 0/0 | | |
| Four Ball EP Wear Test - Weld Point, N | ASTM D 2596 | 2500 | | |

Important note: typical data values do not constitute a specification but are an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved.



Health, Safety and Handling

Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application.

For more information about product MSDS, terms and conditions for storage and shelf life please visit:

www.prista-oil.com