

Verila® Lithium HD

Heavy Duty ▪ High Performance ▪ Extreme Pressure ▪ Multipurpose Lithium Grease

Verila® Lithium HD is lubricating grease based on lithium 12-hydroxystearate soap and high-quality mineral base oil of ISO VG220 viscosity grade. It is available in NLGI 0, NLGI 1 and NLGI 2 consistency grades as VERILA Lithium HD 0, VERILA Lithium HD 1 and VERILA Lithium HD 2 respectively. The grease contains carefully balanced antioxidants, rust and corrosion inhibitors and EP/AW additives as well as water resistance and mechanical stability improvers.

- Excellent Mechanical Stability prevents from leakage.
- Very Good Water Resistance and Rust Inhibiting Properties.
- High Load Carrying Capacity and strong lubricating film.
- Very Good Oxidation Stability.
- Very Good Pumpability, even at low temperatures.

Recommended for lubrication under high loads in both industrial and automotive applications: all kinds of general applications in transport, agriculture, and off-road equipment; lubrication of plain and rolling bearings exposed to severe operating conditions and hostile environments; NLGI 0 and NLGI 1 grades are especially recommended for centralized lubrication systems.



Technical Data

| Grease Classifications | | Lithium HD 0 | Lithium HD 1 | Lithium HD 2 |
|--|--------------|-----------------------|---------------|---------------|
| ISO 6743-9 | | ISO L-XCCEB 0 | ISO L-XCCHB 1 | ISO L-XCCHB 2 |
| DIN 51502 | | KPOK-30 | KP1K-30 | KP2K-30 |
| Test Parameter | Test Method | Value | | |
| Appearance | Visual | Smooth and Homogenous | | |
| Color | Visual | Yellow-to-Brown | | |
| Thickener | | Li 12-Hydroxystearate | | |
| Base Oil Viscosity at 40°C, mm ² /s | EN ISO 3104 | 200 | | |
| NLGI Grade | ASTM D217 | 0 | 1 | 2 |
| Operating Temperature Range | | -30°C to 130°C | | |
| Cone Penetration, Worked, 0.1 mm | ISO 2137 | 355 – 385 | 310 – 340 | 265 – 295 |
| Cone Penetration, 10,000 cycles, 0.1 mm | | < 20 | | |
| Roll Stability, Penetration Change, % | ASTM D1831 | < 10 | | |
| Dropping Point, °C | ISO 6299 | > 180 | > 185 | > 195 |
| Rust Test, EMCOR | ISO 11007 | 0-0 | | |
| Water Resistance Test | DIN 51 807-1 | max 1-90 | | |
| Water Washout Test at 79°C, wt.% loss | ISO 11009 | 6.5% Typical | | |
| Four-Ball EP Test, Weld Point, N | ASTM D2596 | 3150 | | |



While the information and figures given here are typical of current production and compliant with VERILA specification, minor variations may occur