

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 1 and NLGI 2 consistency grades as 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 1 grade especially recommended for centralized lubrication systems of excavators.



Technical Data

Grease Classifications		Lithium HD 1	Lithium HD 2
ISO 6743-9		ISO L-XCCHB 1	ISO L-XCCHB 2
DIN 51502		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	1	2
Operating Temperature Range		-30 to 130 Celsius	
Cone Penetration, Worked, 0.1 mm	ISO 2137	310 – 340	265 – 295
Cone Penetration, 10,000 cycles, 0.1 mm		< 20	
Roll Stability, Penetration Change, %	ASTM D1831	< 10	
Dropping Point	ISO 6299	> 185 Celsius	> 195 Celsius
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