LONG-LASTING GREASE FOR BOTTOM BRACKET MAINTENANCE

Description

Long-Lasting Grease for Bottom Bracket Maintenance is a high-durability grease designed for the most critical rotating points of the bicycle: bearings, seals, ratchets and moving parts where smooth rotation and protection against water and dust make the difference. Its formulation with a high-viscosity-index synthetic base oil and organic urea thickener generates a stable, highly adhesive lubricating film with a low coefficient of friction, capable of maintaining performance over time even under severe thermal cycles and exposure to moisture.

Thanks to its high mechanical, chemical and thermal stability, it extends maintenance intervals and reduces noise and friction losses. It features a consistent texture (NLGI 2) that remains in place, providing sealing capability in areas with gaskets and seals.

Properties and performance

- Thermal behavior: suitable for operation over a wide temperature range, from -50 to 180 °C in continuous service, with peaks up to 220 °C for short periods, maintaining a uniform and adhesive lubricating film. The high viscosity index of the base oil reduces viscosity variation with temperature and minimizes softening that could cause leakage or loss of grease.
- Durability: high resistance to oxidation and aging, helping preserve its properties over long periods. In bearing life tests at 160 °C and 10,000 rpm, it achieves an L50 above 700 hours without relubrication.
- Compatibility: highly compatible with common bicycle materials (metals, engineering plastics and elastomers), helping preserve seals and gaskets while preventing volume changes or premature degradation of non-metallic components.
- Water resistance: very good resistance to water and washout, maintaining lubricating and sealing performance in rain, mud and washing conditions.
- Low friction: very low coefficient of friction (SRV test), suitable for elastohydrodynamic lubrication (EHL) regimes and for reducing energy consumption and operating noise.

Applications

- Hubs (front/rear), wheel bearings and headset bearings.
- Bottom bracket: bearings and sealed areas.
- Suspension pivots and rotation points (according to manufacturer design).
- Ratchets / internal mechanisms where low friction and long maintenance intervals are required.
- Areas in contact with elastomers, silicones, resins or engineering plastics.

Key advantages

- High durability and mechanical stability (longer maintenance intervals).
- Low friction and smoother rolling performance.
- High resistance to water and washout.
- Excellent compatibility with plastics and elastomers.
- Wide temperature range: -50 to 180 °C (peaks up to 220 °C).
- NLGI 2 consistency for controlled and stable application.

The information contained in this document describes the product and suggests typical applications. The user must ensure the suitability of the product for each specific use. The indicated values are typical values and may vary.

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Precautions for use

- Follow standard precautions when handling and using lubricating greases.
- Avoid mixing this grease with others of a different nature.
- Keep the container closed to prevent contamination (water, dust or particles).

Physicochemical characteristics

Property	Value
Color	Blue
Thickener	Urea compound
Base oil	Synthetic
Density at 25 °C (g/cm³) approx.	0.875
NLGI consistency	Grade 2
Unworked penetration	255-295
Worked penetration 60W (0.1 mm)	280-320
Worked penetration 100,000W (0.1 mm)	max. +20
Dropping point (°C)	min. 250
Oxidized ash (%)	max. 0,05
Flow pressure at -35 °C (mbar)	max. 1.500
Oil separation 18 h / 40 °C (%)	max. 1
Oil separation 7 days / 40 °C (%)	max. 4
EMCOR corrosion test	max. Grade 1
Copper corrosion 24 h / 100 °C	max. 1b
Water resistance 3 h / 90 °C	Grade 0
Water washout resistance 1 h / 80 °C (%)	max. 1,5
Oxidation stability 100 h / 100 °C (bar)	max. 0,1
Evaporation loss 22 h / 100 °C (%)	max. 0,25
Evaporation loss 22 h / 150 °C (%)	max. 3
SRV apparatus (100 N, 1 mm, 50 Hz, 80 °C, 1 h, 10 mm ball): μ minimum	max. 0,110
SRV apparatus: μ maximum	max. 0,125
SRV apparatus: μ final	max. 0,120
SRV apparatus: ball wear scar diameter (mm)	max. 0,50
SRV apparatus: curve type	Smooth
SRV EP test: maximum load reached (N)	500
SKF-ROF bearing life test (160 °C, 10,000 rpm)	min. 700
Application temperature range (°C)	-50 to 180 (peaks up to 220)

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