Lubrication

AFB-LF Grease

THK Original Grease

AFB-LF Grease

- Base oil: refined mineral oil
- Consistency enhancer: lithium-based



AFB-LF Grease is a general-purpose grease that provides excellent extreme pressure performance and mechanical stability properties through the use of a refined mineral oil base oil and a lithium-based consistency enhancer.

[Features]

(1) Extreme pressure resistance

The action of the special additives provides higher wear resistance and extreme pressure resistance than other lithium-based greases available on the market.

(2) Mechanical stability

AFB-LF Grease is not easily softened and demonstrates excellent mechanical stability even when used for a long period of time.

(3) Long service life

It provides many times the lubrication life of general lithium soap-based greases. As a result, it offers a lower maintenance workload and greater economy due to the longer intervals between greasing.

[Representative Physical Properties]

[Representative Filysical Fropertion			
Item		Representative value	Test method
Consistency enhancer		Lithium-based	
Base oil		Refined mineral oil	
Base oil kinematic viscosity: mm²/s (40°C)		170	JIS K 2220 23
Worked penetration (25°C, 60 W)		275	JIS K 2220 7
Mixing stability (100,000 W)		345	JIS K 2220 15
Dropping point: ℃		193	JIS K 2220 8
Evaporation amount: mass% (99°C, 22 h)		0.4	JIS K 2220 10
Oil separation rate: mass% (100℃, 24 h)		0.6	JIS K 2220 11
Copper plate corrosion (B method, 100℃, 24 h)		Accepted	JIS K 2220 9
Low-temperature torque: mN·m (-20℃)	Starting	130	JIS K 2220 18
	Rotational	51	
4-ball testing (welding load): N		3089	ASTM D2596
Service temperature range: °C		-15 to 100	
Color		Brownish yellow	





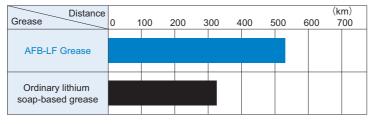


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[Comparison of Grease Service Life Data]

Test conditions Item Description Test products HSR25CA1SS+600L Load 9.8 kN/block Stroke 350 mm Speed 30 m/min (max) Time constant 200 ms Greasing quantity 4 cm² (initial lubrication only)

Travel distance until flaking occurs







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