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]

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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°C, 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		







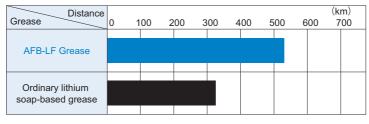
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[Comparison of Grease Service Life Data]

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 cm³ (initial lubrication only)	

Travel distance until flaking occurs





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