

## 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]

Item		Representative value	Test method
Consistency enhancer		Lithium-based	
Base oil		Refined mineral oil	
Base oil kinematic viscosity: mm <sup>2</sup> /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: °C		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°C, 24 h)		Accepted	JIS K 2220 9
Low-temperature torque: mN·m (−20°C)	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	

### [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 cm <sup>3</sup> (initial lubrication only)

Travel distance until flaking occurs

Grease \ Distance	(km)							
	0	100	200	300	400	500	600	700
AFB-LF Grease								
Ordinary lithium soap-based grease								

**A24-10 THK**



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