

THK Original Grease

# AFB-LF Grease

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



AFB-LF Grease is a general-purpose grease developed with a lithium-based consistency enhancer using refined mineral oil as the base oil. It excels in extreme pressure resistance and mechanical stability.

## [Features]

- (1) High extreme pressure resistance  
Compared with lithium-based greases available on the market, AFB-LF Grease has higher wear resistance and outstanding resistance to extreme pressure.
- (2) High mechanical stability  
AFB-LF Grease is not easily softened and demonstrates excellent mechanical stability even when used for a long period of time.
- (3) High water resistance  
Compared with ordinary lithium grease, this product is a highly water resistant grease with minimal softening due to moisture penetration and very little deterioration under extreme pressures.
- (4) Long service life  
It provides many times the lubrication life of 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]

Test item	Representative value	Test method
Worked penetration (25°C, 60W)	275	JIS K 2220 7
Dropping point: °C	193	JIS K 2220 8
Copper plate corrosion (100°C, 24h)	Accepted	JIS K 2220 9
Evaporation amount: mass% (99°C, 22h)	0.36	JIS K 2220 10
Oil separation rate: mass% (100°C, 24h)	0.6	JIS K 2220 11
Stability of oxidation: kPa (99°C, 100h)	15	JIS K 2220 12
Mixing stability (100,000 W)	345	JIS K 2220 15
Timken load capacity: kg	20.4	JIS K 2220 20
Grease removal resistance during water rinse: mass% (38°C, 1h)	1.8	JIS K 2220 16
Bearing Corrosion prevention: (52°C, 48h)	Accepted	ASTM D1743-73
Service Temperature Range (°C)	-15 to 100	—

**[Comparison of Grease Service Life Data]**

&lt;Test products&gt;

LM Guide HSR25CA1SS + 600L

&lt;Test conditions&gt;

Load : 9.8 kN/block

Stroke : 350mm

Speed : 30m/min (MAX)

Time constant : 200msec

Greasing quantity:4g/block (initial lubrication only)

Travel distance until flaking occurs by grease type

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

## How to contact your authorised distributor

### Distribution Centres

#### Rotherham CDC

**T** 0845 602 9946

**F** 01709 789 988

**E** [sales@acorn-ind.co.uk](mailto:sales@acorn-ind.co.uk)

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#### North East RDC

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#### South West RDC

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### Regional Branches

#### North West Branch

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**F** 01506 462 655

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### Divisions

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#### Linear Division

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