

THK油脂

AFB-LF油脂

- 基礎油：精製礦物油
  - 增稠劑：尿素類



AFB-LF油脂是以鋰基增稠劑開發的通用油脂，使用精製礦物油作為其基礎油。它在極端壓力的耐受性和機械穩定性方面表現出色。

### 【特徵】

### (1) 極端壓力的高耐受性

與市場上提供的鋰基油脂相比，AFB-LF油脂具有較高的耐磨耗性和優異的極端壓力耐受性。

## (2) 高機械穩定性

AFB-LF油脂不易軟化，表現出優異的機械穩定性，即使經過長時間使用後也是如此。

### (3) 高耐水性

這種潤滑脂與普通的鋰基潤滑脂相比，不容易受到水的影響（如水分滲入後軟化或降低耐極高壓性能等）。

#### (4) 使用壽命長

與普通的鋰皂基系潤滑脂相比，可以獲得數倍的潤滑壽命。因此，給脂間隔可以延長，具有經濟性，可以減輕維護的負擔。

### 【代表物理特徵】

項目	代表值	測試方法
增稠劑	鋰基	
基礎油	精製礦物油	
基礎油運動黏度: mm <sup>2</sup> /s (40°C)	170	JIS K 2220 23
針入度 (25°C, 60W)	275	JIS K 2220 7
混和穩定性 (100,000 W)	345	JIS K 2220 15
滴點 °C	193	JIS K 2220 8
蒸發量: mass% (99°C, 22h)	0.4	JIS K 2220 10
離油度: mass% (100°C, 24h)	0.6	JIS K 2220 11
銅板腐蝕 (B方法, 100°C, 24h)	合格	JIS K 2220 9
低溫扭力: mN·m(-20°C)	起動 轉數	130 51
4滾珠試驗 (老化負荷): N	3089	ASTM D2596
使用溫度範圍 °C	-15~100	
外觀顏色	黃褐色	

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AEF-1 E油脂

## 【潤滑脂的壽命數據比較】

〈試驗品〉

LM導軌HSR25CA1SS+600L

### 〈試驗條件〉

負荷	: 9.8kN/滑塊1個
行程	: 350mm
速度	: 30m/min(最大)
時定數	: 200msec
給脂量	: 4g/1滑塊(僅初始封入)

勝特力材料 886-3-5753170  
胜特力电子(上海) 86-21-34970699  
胜特力电子(深圳) 86-755-83298787

[Http://www.199x.com.tw](http://www.199x.com.tw)

按照油脂區分至剝落為止的行走距離

油脂	距離 (km)	0	100	200	300	400	500	600	700
AFB-LF油脂							██████████		
一般鋰皂基油脂						██████████			

# 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]

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, 60W)	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, 22h)	0.4	JIS K 2220 10
Oil separation rate: mass% (100°C, 24h)	0.6	JIS K 2220 11
Copper plate corrosion (B method, 100°C, 24h)	Accepted	JIS K 2220 9
Low temperature torque: N·m (-20°C)	Start (revolutions)	130 51
4-ball testing (burn-in load): N	3089	ASTM D2596
Service Temperature Range °C	-15 to 100	
Color	Yellowish brown	

### Lubrication

## AFB-I F Grease

## [Comparison of Grease Service Life Data]

## **<Test products>**

| M Guide HSR25CA1SS ± 600I

[View details](#)

Test conditions  
 Load : 9.8 kN/block  
 Stroke : 350mm  
 Speed : 30m/min (MAX)  
 Time constant : 200msec  
 Greasing quantity : 4g/block (initial lubrication only)

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胜特力电子(上海) 86-21-34970699  
胜特力电子(深圳) 86-755-8329878  
[Http://www.100y.com.tw](http://www.100y.com.tw)

Travel distance until flaking occurs by grease type

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