

永軸企業有限公司

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適用產業：FA機械、TFT-LCD、LED、半導體製程設備零組件、印刷機械、太陽能(電池)設備、自動化倉儲設備、檢測設備AOI(零組件)、各種產業

THK



低價格體積小重量輕低噪音

德國 FESTO EGSK&EGSP 高鋼性
高精度 高C/P值
競爭性價格 交期短



NSK

高速高精度滑台，
滿足清淨要求



符合MSDS、ROHS知名正牌THK NSK原裝無塵室潤滑油、
真空用油FOMBLIN以及其它用油



TOSOK



日本電産トーソク株式会社

TOSOK日本精密螺桿
C3-C7級
OEM供應Dia 3-25,
也可客製化



NSB 日系直線滾珠花鍵



PEEK、UPE、ZrO2、Si3N4、PTFE
陶瓷軸承、混合式陶瓷軸承、塑膠軸承
滾珠Dia0.5mm-65mm



原裝日本知名微型軸承不鏽鋼
內徑1mm-10mm67、68、69超薄型

STAF

首創靜音鏈帶、(非)鏈帶式
滑塊共軌式
· 降低噪音
· 提升潤滑
· 壽命穩定

公司簡介

本公司成立於1977年，最早從事貿易批發專業銷
日系品牌 NTN、NSK，一直秉持誠信、互利態度，
提供相關產品銷售及資訊，也由於產業設備不斷
開發及精進，敝司也陸續引進並更新銷售新產品
零組件。引進及使用廠牌：如 THK、NSK、IKO、
NTN、KOYO、NMB、EZO、TOK、ASAHI、FAG、SKF、
NSB、TOSOK、FESTO、STAR等知名品牌。應用領
域如FA機械、TFT-LCD、LED、半導體製程設備零
組件、CNC專用機軸承、太陽能(電池)設備、自動
化倉儲設備、檢測設備AOI(零組件)。也因應市場
的需求，依使用產業及功能區分，銷售高品質台製
直線運動滑軌LM GUIDE、螺桿Ball Screw、OEM鋁
擠型Table，並加以專業分級提供銷售高品質短期
，依產業應用的不同，我們提供專業諮詢提供適
當的零件供應使用，也由於產業的提升，我們將
會持續不斷的引進新產品，歡迎來電或來信洽詢
與指教

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THK Original Grease

AFJ Grease

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



The THK AFJ grease uses refined mineral oil as its base and contains urea-based consistency enhancer and other special additives that give excellent lubrication properties at a wide range of speeds, from low to high.

[Features]

- (1) Wide range of speeds
Provides consistent and even lubrication at both high and low work speeds.
- (2) Wear Resistance
Even at low speeds, it has excellent oil film formation characteristics to reduce wear.
- (3) Resistant to vibration
Reduces wear caused by machine vibration during high-speed operation.
- (4) Low rolling resistance
Reduces rolling resistance in LM guides and ball screws over a wide range of speeds.
- (5) Good pressure-feed characteristics
This product provides excellent pressure-fed performance when used in automatic greasing systems.

[Representative Physical Properties]

Test item	Representative value	Test method
Worked penetration (25°C, 60W)	325	JIS K 2220 7
Dropping point: °C	185	JIS K 2220 8
Copper plate corrosion (100°C, 24h)	Accepted	JIS K 2220 9
Evaporation amount: mass% (99°C, 22h)	0.6	JIS K 2220 10
Oil separation rate: mass% (100°C, 24h)	7.0	JIS K 2220 11
Stability of oxidation: kPa (99°C, 100h)	10	JIS K 2220 12
Mixing stability (100,000 W 25°C)	360	JIS K 2220 15
Low temperature torque: N·m (-20°C)	Start	JIS K 2220 18
	(revolutions)	
Bearing Corrosion prevention (52°C, 48h)	Accepted	ASTM D 1743-73
4-ball testing (burn-in load): N	3089	ASTM D 2596
Service Temperature Range (°C)	-20 to 120 (150)* ¹	—

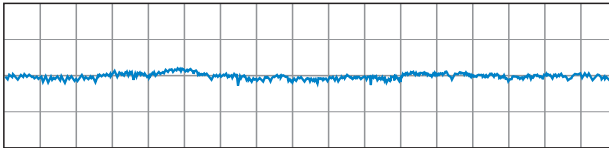
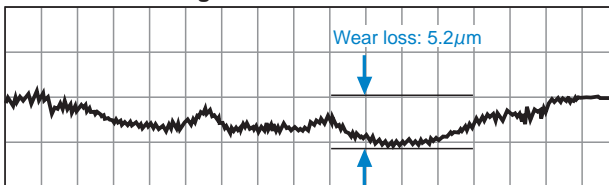
*¹ () is for instantaneous use only.

[Test data for LM guide block wear resistance]**● AFJ grease test data (comparing the amount of wear)**

The test data in the figure compares the test results for the amount of wear for this product and other greases.

<Test conditions>

Item	Description
Model No.	NRS55B2SS+780LP
Applied load	5.9kN
Feeding speed	0.1m/min
Stroke	200mm
Grease quantity	12cm/ LM block (initial lubrication only)
Test duration	480 hours

THK AFJ Grease**Other urea-based grease**

[Test data for LM guide rail vibration resistance]

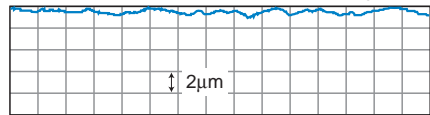
● AFJ grease test data (comparing the amount of vibration)

The test data in the figure compares the test results for the amount of vibration for this product and other greases.

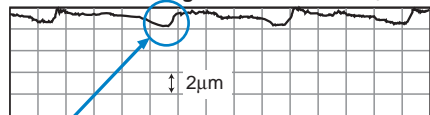
<Test conditions>

Item	Description
Model No.	SHS25R1UU+580LP
Applied load	11.05 kN (0.35C)
Feeding speed	60 m/min
Acceleration/deceleration	9.8 m/s ²
Stroke	350 mm
Grease quantity	2 cm ³ /block

THK AFJ Grease After traveling 434km



Other urea-based grease After traveling 86km



"Wear Occurrence Mechanisms"

Patterns of high-speed and high acceleration/deceleration operation

Occurrence of machine vibration

Occurrence of wear in roll grooves

[Measurement data for LM guide rolling resistance]
● AFJ grease test data (rolling resistance comparison)

The test data in the figure compares the results of rolling resistance testing on this product and other greases.

<Test conditions>

Item	Description
Model No.	SHS25R1UU+3000L
Applied load	No load
Acceleration	29.4 m/s ² (3G)
Stroke	2300 mm
Test temperature	21 °C
Grease quantity	2 cm ³ /block
Measurement speed	0.5, 1, 2, 3, 4, 5, 6 m/s

LM guide speeds and rolling resistance

