Lubrication

AFJ Grease

THK Original Grease

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

AFJ grease uses refined mineral oil as its base and a urea-based grease as its consistency enhancer, while also featuring other special additives. This gives it excellent lubrication properties at a wide range of speeds—from low to high.

[Features]

(1) Wide range of speeds

It provides consistent and even lubrication at a wide range of speeds, from low to high.

- (2) Wear resistance
 - Even at low speeds, it has excellent oil film formation to reduce wear.
- (3) Vibration resistance

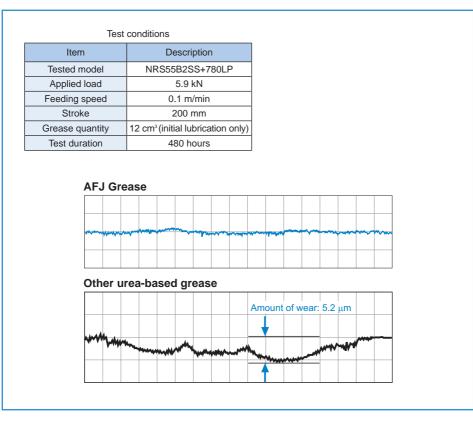
It reduces wear caused by machine vibration during high-speed operation.

[Representative Physical Properties]

Item		Representative value	Test method
Consistency enhancer		Urea-based	
Base oil		Refined mineral oil	
Base oil kinematic viscosity: mm ² /s (40°C)		20	JIS K 2220 23
Worked penetration (25°C, 60 W)		325	JIS K 2220 7
Mixing stability (100,000 W)		360	JIS K 2220 15
Dropping point: °C		185	JIS K 2220 8
Evaporation amount: mass% (99°C, 22 h)		0.6	JIS K 2220 10
Oil separation rate: mass% (100°C, 24 h)		7.0	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	38	JIS K 2220 18
	Rotational	13	
4-ball testing (welding load): N		3089	ASTM D2596
Service temperature range: °C		-20 to 120	
Color		Yellowish brown	



[Wear Resistance Test Data (LM Guide Block)]



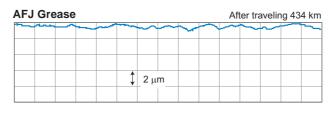
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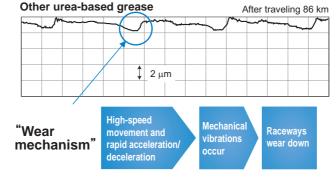
Accessories for Lubrication

AFJ Grease

[Vibration Resistance Test Data (LM Guide Rail)]

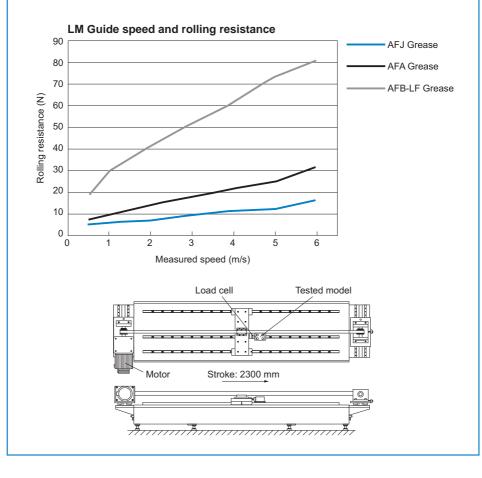
Test conditions			
Item	Description		
Tested model	SHS25R1UU+580LP		
Applied load	11.05 kN (0.35C)		
Feeding speed	60 m/min		
Acceleration/ deceleration	9.8 m/s²		
Stroke	350 mm		
Grease quantity	2 cm ³ (initial lubrication only)		





[LM Guide Rolling Resistance Measurement Data]

Test conditions			
Item	Description		
Tested model	SHS25R1UU+3000L		
Applied load	No load		
Acceleration	29.4 m/s² (3G)		
Stroke	2300 mm		
Test temperature	21°C		
Grease quantity	2 cm ³ (initial lubrication only)		
Measurement speed	0.5, 1, 2, 3, 4, 5, 6 m/s		



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