Lubrication

AFF Grease

THK Original Grease

AFF Grease

- Base oil: high-grade synthetic oil
- Consistency enhancer: lithium-based



AFF grease uses high-grade synthetic oil as its base and a lithium-based grease as its consistency enhancer, while also featuring special additives. This gives it excellent anti-fretting and low dust-generating performance. It also features a level of stable rolling resistance not found in other conventional vacuum and low dust-generating greases.

[Features]

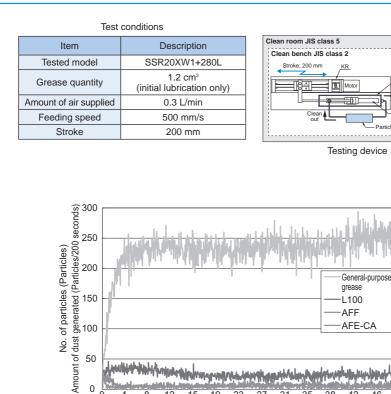
- (1) Stable rolling resistance
 - Since the viscous resistance is low, the rolling resistance fluctuation is also low. Thus, superb conformity is achieved at low speeds.
- (2) Low dust generation
 - It generates very little dust, making it ideal for use under micro-stroke conditions.
- (3) Fretting resistance
 - Since AFF grease is more resistant to wear from micro-vibrations than other low dust-generating greases, it allows the greasing interval to be extended.

[Representative Physical Properties]

[Representative Fitysical Froperties]			
Item		Representative value	Test method
Consistency enhancer		Lithium-based	
Base oil		High-grade synthetic oil	
Base oil kinematic viscosity: mm²/s (40°C)		100	JIS K 2220 23
Worked penetration (25°C, 60 W)		315	JIS K 2220 7
Mixing stability (100,000 W)		345	JIS K 2220 15
Dropping point: ℃		220	JIS K 2220 8
Evaporation amount: mass% (99°C, 22 h)		0.7	JIS K 2220 10
Oil separation rate: mass% (100℃, 24 h)		2.6	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	220	JIS K 2220 18
	Rotational	60	
4-ball testing (welding load): N		1236	ASTM D2596
Service temperature range: ℃		-40 to 120	
Color		Reddish brown	

[Low Dust-Generating Performance Test Data]

AFF Grease Test Data (Comparison of Dust Generation)



Testing device

L100 AFF AFE-CA

Time (Hr)

Lubrication

AFF Grease

[Rolling Resistance Characteristics at Low Speed]

