

## 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]

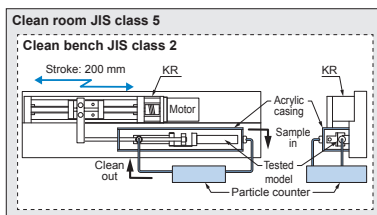
Item		Representative value	Test method
Consistency enhancer		Lithium-based	
Base oil		High-grade synthetic oil	
Base oil kinematic viscosity: mm <sup>2</sup> /s (40°C)		100	JIS K 2220 23
Worked penetration (25°C, 60 W)		315	JIS K 2220 7
Mixing stability (100,000 W)		345	JIS K 2220 15
Dropping point: °C		220	JIS K 2220 8
Evaporation amount: mass% (99°C, 22 h)		0.7	JIS K 2220 10
Oil separation rate: mass% (100°C, 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: °C		−40 to 120	
Color		Reddish brown	

# [Low Dust-Generating Performance Test Data]

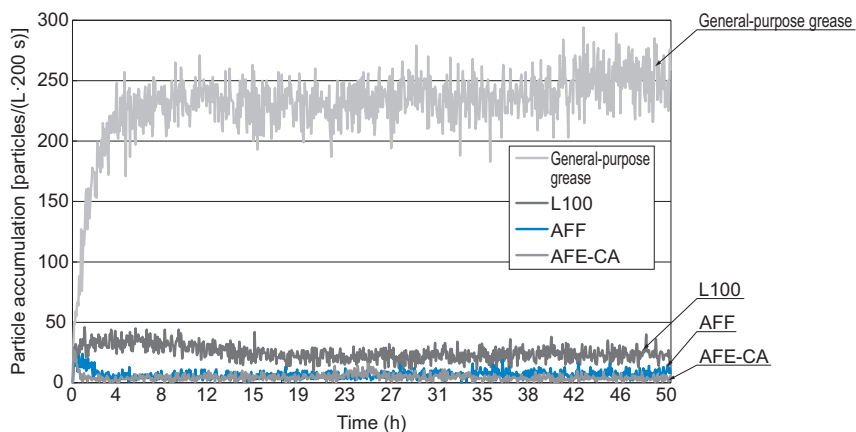
## ● AFF Grease Test Data (Comparison of Dust Generation)

Test conditions

Item	Description
Tested model	SSR20XW1+280L
Grease quantity	1.2 cm <sup>3</sup> (initial lubrication only)
Amount of air supplied	0.3 L/min
Feeding speed	500 mm/s
Stroke	200 mm



Testing device



## [Rolling Resistance Characteristics at Low Speed]

Test conditions

Item	Description
Tested model	HSR35RC0+440LP
Grease quantity	4 cm <sup>3</sup> (initial lubrication only)
Feeding speed	1 mm/s
Stroke	3 mm

