

THK Original Grease

AFF Grease

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



AFF Grease uses a high-grade synthetic oil, lithium-based consistency enhancer and a special additive. It achieves stable rolling resistance, low dust generation and high fretting resistance, at a level that conventional vacuum greases or low dust generation greases have not reached.

[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 speed.
- (2) Low dust generation
AFF Grease generates little dust, making itself an ideal grease for use in clean rooms.
- (3) Fretting resistance
Since AFF Grease is more resistant to wear from microvibrations than other low particle generative grease, it allows the greasing interval to be extended.

[Representative Physical Properties]

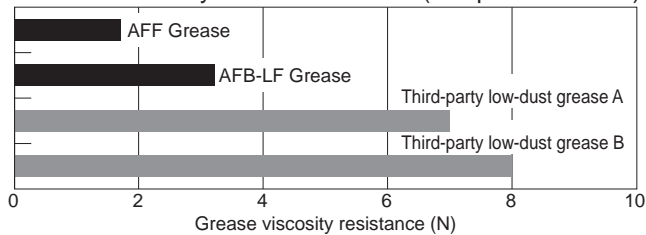
Item	Representative value	Test method
Consistency enhancer	Lithium-based	
Base oil	high-grade synthetic oil	
Base oil kinematic viscosity: mm ² /s (40°C)	100	JIS K 2220 23
Worked penetration (25°C, 60W)	315	JIS K 2220 7
Mixing stability (100,000 W)	345	JIS K 2220 15
Dropping point °C	220	JIS K 2220 8
Evaporation amount: mass% (99°C, 22h)	0.7	JIS K 2220 10
Oil separation rate: mass% (100°C, 24h)	2.6	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	220
	(revolutions)	60
4-ball testing (burn-in load): N	1236	ASTM D2596
Service Temperature Range °C	-40 to 120	
Color	Reddish brown	

[Grease viscosity resistance measurements]

<Test conditions>

Item	Description
Model No.	HSR25A1C1+580LP
Grease quantity	3cm ³ / LM block (initial lubrication only)
Feeding speed	10mm/s

• Grease viscosity resistance (Temperature: 23°C)



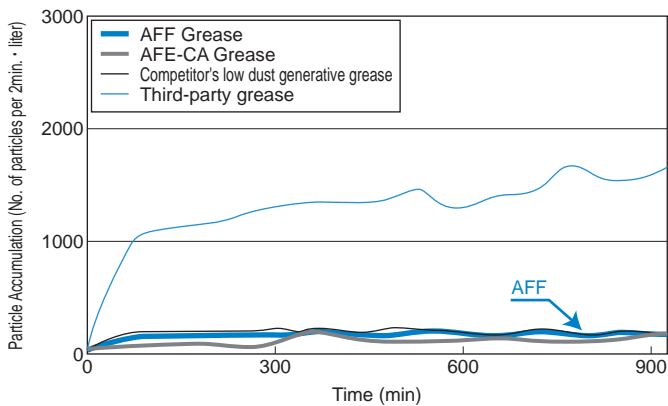
[Test Data on Low Dust Generative Characteristics]

● Test Data on AFF Grease (Comparison of Particle Accumulation)

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

<Test conditions>

Item	Description
Model No.	SR20W1+280LP
Grease quantity	1 cm ³ / LM block (initial lubrication only)
Amount of air supplied	500cm ³ /min
[Measurement instrument]	Particle counter
Diameter of particle measured	0.3μm or more
Feeding speed	30m/min
Stroke	200mm



[Rolling Resistance Characteristics at Low Speed]

● Rolling Resistance at Low Speed

The data in the figure represent the test results of comparing rolling resistances at low speed between AFF Grease and other greases.

<Test conditions>

Item	Description
Model No.	HSR35RC0+440LP
Grease quantity	4cm ³ / LM block (initial lubrication only)
Feeding speed	1mm/s
Stroke	3mm

