THK Original Grease

AFC Grease

●Base oil: high-grade synthetic oil
●Consistency enhancer: urea-based

AFC Grease has high fretting-corrosion resistance due to a special additive and a urea-based consistency enhancer using a high-grade synthetic oil as the base oil.

[Features]

(1) High fretting-corrosion resistance
AFC Grease is designed to be highly effective in preventing fretting corrosion.

(2) Long service life
Unlike ordinary soap based grease for metal lubrication, AFC Grease excels in antioxidation stability and therefore can be used for a long period of time. As a result, maintenance work is reduced.

(3) Wide temperature range
Since a high-grade synthetic oil is used as the base oil, the lubricating performance remains high over a wide range of temperatures from -54 ℃ to +177 ℃.

[Representative Physical Properties]

Item		Representative value	Test method
Consistency enhancer		Urea-based	
Base oil		high-grade synthetic oil	
Base oil kinematic viscosity: mm^2/s (40℃)		25	JIS K 2220 23
Worked penetration (25℃, 60W)		288	JIS K 2220 7
Mixing stability (100,000 W)		341	JIS K 2220 15
Dropping point ℃		269	JIS K 2220 8
Evaporation amount: mass% (99℃, 22h)		0.2	JIS K 2220 10
Oil separation rate: mass% (100℃, 24h)		0.6	JIS K 2220 11
Copper plate corrosion (B method, 100℃, 24h)		Accepted	JIS K 2220 9
Low temperature torque: N-m (-20℃)	Start	160	JIS K 2220 18
	(revolutions)	68	
4-ball testing (burn-in load): N		3089	ASTM D2596
Service Temperature Range ℃		-54 to 177	
Color		Brown	

[Test Data on Fretting-corrosion Resistance]

● Test Data on AFC Grease (Comparison of Raceway Conditions)

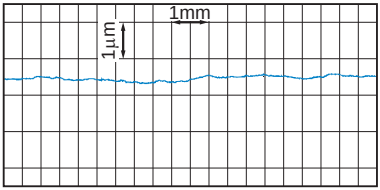
The test data in the figure shows the results of comparing this product with an ordinary bearing grease.

<Test conditions>

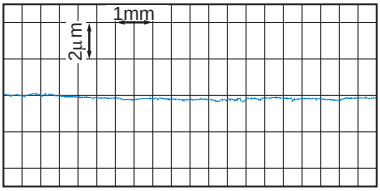
Item	Description
Stroke	3mm
Number of strokes per minute	200min^{-1}
Total number of strokes	2.88×10^{5} (24 hours)
Surface pressure	1118MPa
Grease quantity	12g/1LM block (replenished every 8 hours)

AFC Grease

Before travel

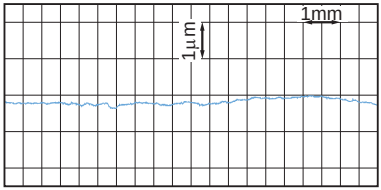


After travel



General-purpose bearing grease

Before travel



After travel