#### Lubrication

**AFC Grease** 

# **THK Original Grease AFC Grease**

Base oil: high-grade synthetic oil Oconsistency enhancer: urea-based

AFC grease uses high-grade synthetic oil as its base and a urea-based grease as its consistency enhancer, while also featuring special additives. This gives it excellent fretting resistance.

#### [Features]

(1) Fretting resistance

It is designed to be highly effective in preventing fretting corrosion.

(2) 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: mm²/s (40°	C)	25	JIS K 2220 23				
Worked penetration (25°C, 60 W)		288	JIS K 2220 7				
Mixing stability (100,000 W)		341	JIS K 2220 15				
Dropping point: °C		269	JIS K 2220 8				
Evaporation amount: mass% (99°C, 22	h)	0.2	JIS K 2220 10				
Oil separation rate: mass% (100°C, 24 I	h)	0.6	JIS K 2220 11				
Copper plate corrosion (B method, 100°	°C, 24 h)	Accepted	JIS K 2220 9				
Low-temperature torque: mN·m (-20℃)	Starting	160					
Low-temperature torque. mix-m (-200)	Rotational	68	JIS K 2220 18				
4-ball testing (welding load): N		3089	ASTM D2596				
Service temperature range: °C		-54 to 177					
Color		Brown					

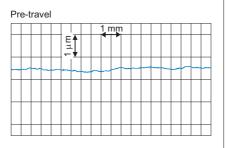




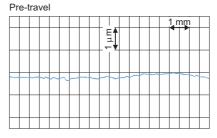
# [Fretting Resistance Test Data (Comparison of Raceway Conditions)]

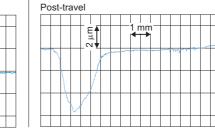
Test conditions								
Item	Description							
Stroke	3 mm							
Number of strokes per minute	200 min <sup>-1</sup>							
Total number of strokes	2.88×10⁵ (24 h)							
Surface pressure	1118 MPa							
Grease quantity	12 cm³ (replenished every 8 h)							

# **AFC Grease**



# General bearing grease





#### Post-travel

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