#### 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°C to 177°C.

#### [Representative Physical Properties]

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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: ℃		269	JIS K 2220 8
Evaporation amount: mass% (99°C, 22 h)		0.2	JIS K 2220 10
Oil separation rate: mass% (100℃, 24 h)		0.6	JIS K 2220 11
Copper plate corrosion (B method, 100℃, 24 h)		Accepted	JIS K 2220 9
Low-temperature torque: mN-m (-20°C)	Starting	160	JIS K 2220 18
	Rotational	68	
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 200 min<sup>-1</sup> minute Total number of strokes 2.88×10<sup>5</sup> (24 hours) Surface pressure 1118 MPa 12 cm<sup>3</sup> Grease quantity (replenished every 8 hours) **General bearing grease AFC Grease** Pre-travel Pre-travel 1 mm 1 mm E T ĘŢ Post-travel Post-travel 1 mm 1 mm