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IKO Anti-Fretting Corrosion Grease AF2

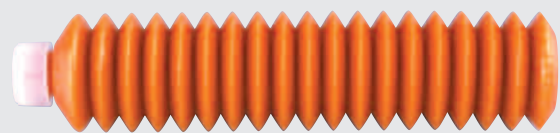
If a short stroke or small oscillation are given in large number of times, lubricant may driven out from the contact surfaces of rolling element and raceway, and wears having red rust colored particles may occur.

It is called fretting corrosion or false brinelling, which can give serious influence to machine's performance and accuracy.

IKO AF2 grease is an Anti-Fretting Corrosion Grease consists of synthetic base oil and urea type thickener. This grease is suitable to very short stroke application that general grease cannot be used.

AF2 Grease

JG80 / AF2 in bellow type container (80g)



MG2.5 / AF2 in miniature greaser (2.5ml)



Features

- 1 Superior Anti-Fretting Corrosion performance realizes very short stroke application in safety.
- 2 Wide operation temperature range (good for -50°C to 170°C)
- 3 Rolling resistance is very stable and the fluctuation by operation speed can be minimized.
- 4 Superior oxidation stability because no metallic soap base is used.

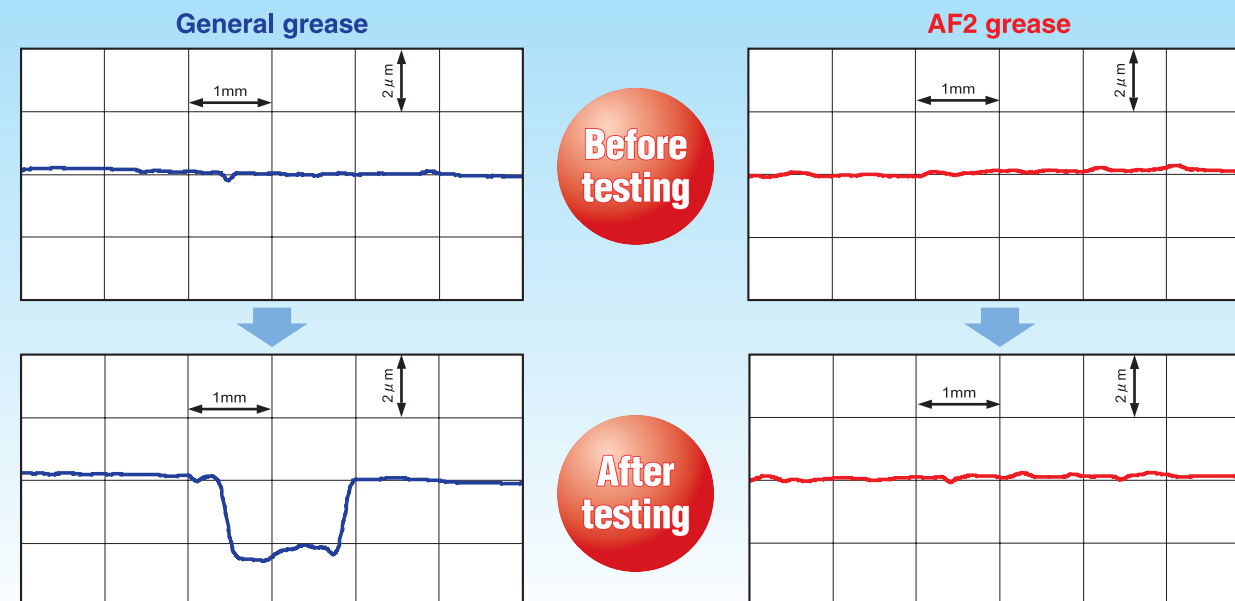
Base properties

Test item and condition	Representative value	Test method
Appearance	Light brown	
Base oil	Synthetic oil	
Thicker	Urea	
Worked penetration (25°C)	285	JIS K 2220
Dropping point °C	250 or over	JIS K 2220
Oil separation mass% (100°C, 24h)	2.0	JIS K 2220
Oxidation stability kPa (99°C, 100h)	30	JIS K 2220
Working stability (100,000 times)	340	JIS K 2220
Corrosion prevention on bearings (52°C, 48h)	Passed	ASTM D 1743
Base oil kinematic viscosity mm ² /s (40°C)	25	JIS K 2283

Anti-fretting durability test

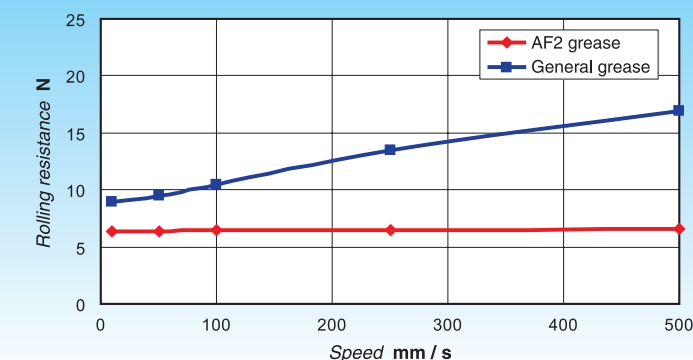
Test piece : LWHS 25
 Stroke length : 3 mm
 Number of stroke per minute : 300 min⁻¹
 Total number of stroke : 3.6 X 10⁵ (20 hours)
 Maximum compressive stress : 1595 MPa
 Initial grease amount : 0.5 g (per one circulation low)

Profile of raceway surface



Rolling resistance

Test piece : LWHD 30 with T₁ preload
 Initial grease amount : 1.1g (per one circulation low)



Caution



- When handling grease, put on goggles or face shield for eye protection and gloves to avoid skin contact.
- **Contact with grease may cause inflammation.** (First-aid) **Eyes:** Rinse eyes with a plenty of water and get medical attention immediately. **Ingestion:** Do not induce vomiting and get medical attention immediately.
- After handling grease, wash skin with a plenty of soap water.
- Do not expose grease to high temperature, because it is a flammable item. Flash point is 200°C. (392°F)
- Storage: Put on the cap tight. Avoid exposure to sunlight and high temperatures. Keep it in a cool and dark place.
- Disposal method: Dispose it according to the applicable regulations.

• IKO Linear Motion Rolling Guide with pre-packed AF2 grease can be delivered on request. Please consult to IKO.