

KES

Corrosion Preventive Property of Lubricating Grease

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Additional Rule

1. Scope of application

This standard shall regulated corrosion property test of grease, which is used in humid condition. This standard is based on the CRC technical L41.

2. Summary of test method

Rotating bearing with light load for about 60 seconds, and apply grease.

Leave bearing that is applied with grease for 48 hours at 52 ± 1 °C temperature and 100 % humidity. And remove grease and evaluate corrosive state.

3. Device

- (1) Bearings : Timken bearing or one that is discussed.
- (2) Container : 273 cm³ - glass container with cover
- (3) Bearing support : Glass adapter
- (4) Motor : 1/4HP at 1750 rpm
- (5) Spindle :
- (6) Trust loading : Refer to Fig.1
- (7) Mechanical grease packer : Refer to Fig.2

4. Material

- (1) Solvent : Isopropyl alcohol : Distilled water : Ammonium hydroxide = 90 : 9 : 1
- (2) Standard solvent : Refer to ASTM D484
- (3) Isopropyl alcohol

5. Standard loading device

Refer to Fig.1