KES

Test Method for Water Washout Characteristics of Lubricating Grease

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1. Scope of Application

This standard shall regulate a test method for water washout characteristics of lubricating grease, etc.

2. Definition

The water washout characteristics mean a feature of washing of bearing grease with water.

3. Summary of Test Method

Construct the ball bearing filled with sample with housing, rotate at 600 ± 30 rpm, put distilled water, which is kept at temperature of 38 ± 2 °C or 79 ± 2 °C, at a rate of every 5 ± 0.5 mℓ into the housing of ball bearing.

Calculate decreased amount of the sample after one hour.

4. Equipment

It is composed of the bearing, the housing, a water bucket, a pump, a motor, etc.

4.1 Ball bearing for test

Use 6204 regular class ball bearing as regulated.

4.2 Water bucket

The one that has a heater, which can keep the temperature of 38 ± 2 °C and 79 ± 2 °C.

4.3 Thermometer

Use a glass thermometer or a thermocouple that has a detailed scale of 1 °C.

5. Preparation of Test

5.1 Wash the water bucket and a water exchange part with distilled water, and cleanse oil

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