

KES

Test Method for Water Washout
Characteristics of Lubricating
Grease

KES T – L231

(EST.) 1989 – 06 – 09

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1. Scope of Application

This standard shall regulate a method to evaluate water washout characteristics of lubricating grease.

2. Definition

The water washout characteristics are a description of how bearing grease is washed out by water.

3. Summary of Test Method

After constructing a housing of ball bearing filled with sample, rotate at 600 ± 30 rpm while injecting 38 ± 2 °C or 79 ± 2 °C of distilled water into the housing of the ball bearing at a rate of 5 ± 0.5 ml per second. Calculate decreased amount of the sample in percentage after one hour.

4. Apparatus

Constructed as shown in the figure, it consists of a bearing, a housing, a water container, a pump, a motor, etc.

4.1 Ball bearing for test use

Use 6204 regular grades as regulated in Ball Bearing.

4.2 Water container

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

4.3 Thermometer

Use a thermometer made of glass with a scale of 1 °C, or a thermoelectric thermometer.