



Test Method of Grease Protective Power

KES T – L073

(EST.) 1989 – 03 – 30

Contents

1. Scope of Application
 2. Test Method
 3. Report
 4. Evaluation Standard
 5. Quoted Standard
- Additional Rule



1. Scope of Application

This standard determines protective power evaluation method by shaft material used for grease.

2. Test Method

2.1 Measurement of Volatile Material

Put 100g specimen in a pot whose diameter and depth is 120 mm and 50 mm.

Cover it, and maintain it in steam bath for 4 hours. Slowly open the cover.

Cool it down at normal temperature, and measure its weight. Calculate the volatility with following expression.

$$\text{Volatility (\%)} = \frac{(T - S) - (C - S)}{T - S} \times 100$$

Here, T : Specimen and pot weight before the test (g)

C : Specimen and pot weight after the test (g)

S : Pot weight (g)

2.2 Protective Power Test

(1) Test Specimen : It has the same material plate as shaft. Use the one whose size is 100 × 50 × 3 mm.

In case that there is no plate, cut the shaft and use it as a specimen.

(2) Specimen Preparation : Make the edge and vertex part round.

Clean the specimen with n-heptane. Spray heptane, and again clean it with methyl alcohol.

Remove the organisms by grinding the specimen surface with #320 grade sandpaper.

After removing them, clean it with n-heptane. In the last place clean it with methyl alcohol.

(3) Protective Power Evaluation against Water : Coat thin grease on 3 specimens, and