

KES

Wear Testing Method of the Room Temperature

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Contents

1. Scope of Application
2. Test Instruments
3. Test Method and Order
4. Data Calculation Method



1. Scope of Application

This standard determines Wear Testing Method of the Room Temperature of Okoshi wear tester in order to test a wear resisting of industrial material (C steel, reinforced steel, iron, aluminum..... etc.).

2. Test Instrument

- ◇ Revolving disc
- ◇ Microscope
- ◇ Grinder
- ◇ Dresser
- ◇ Vernier Calipers

3. Test Method and Order

- (1) Preparation of a specimen (Width 42 mm, length 25 mm, height 10 mm, surface roughness)
- (2) Insert oil on lubrication part of the tester.
- (3) Set the test conditions such as, wear load, wear distance, and wear velocity.
- (4) Fix the revolving disc grinding specimen on a vice
- (5) Set the spring scale at 4.5 mm.
- (6) SW. On start the test. When finished, it shall stop automatically.
- (7) After disengaging the load gear, pick up the specimen and measure the width of worn area.
- (8) After repeating above test 5 times, calculate Data by its average.
- (9) Expression : $h = r - \sqrt{r^2 - (b^2 / 4)}$