

KES

Standard of the Tensile Creep
Test for Metallic Materials

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Contents

1. Scope of Application

2. Specimen

3. Testing Device

4. Testing Method

5. Report

Additional Rule

Quoted Standard



1. Scope of application

This standard shall specify the method of the tensile creep test which measures the tensile deformation of metallic materials under the continuous condition of the constant temperature and load.

2. Specimen

- 2.1 In principle, the shape of cross-section of a standard specimen is circular and its diameter is 10mm. According to circumstances, its diameter can be 6mm, 8mm or 12mm. In principle, the length between marked points is 5 times as long as the diameter of specimen.
- 2.2 The circular cross-section of specimen should be uniform and the dimension tolerance of diameter of a parallel part is as table 1. The center of a parallel part should be coincided with that of a clamped part.

Table1 The dimension tolerance as to diameter of the center of a specimen

Unit : mm

Diameter	Dimension tolerance
6	Under 0.03
8, 10, 12	Under 0.04

- 2.3 When the circular cross-sectional specimen can't be obtained, it is possible to use the flat board specimen. But, its dimension should follow an agreement between persons concerned.
- 2.4 The parallel part of specimen should be smooth and shouldn't have cutting scratches.

3. Testing device

3.1 Tensile testing device

- 3.1.1 A tensile testing device should have the weight precision, $\pm 0.5\%$ in the weight capacity range, 5 ~ 100%. Be careful not to happen the shock when the weight is