

KES

Standard Method for Hot Mounting of Specimen

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Additional Rule



1. Scope of Application

This standard determines the case when the size of molding method for specimen is inappropriate (Too big or too small) for structure observation and character test.

2. Purpose

This standard is to make the test effective by cutting and mounting the specimen when the specimen size is too big or too small, when it is impossible to test in some specimen conditions and when you observe specimen surface condition (Carburizing or nitration).

3. Test Instruments

- (1) Microcutter
- (2) Mounting Press (Specimen Former) : hole size → Ø 32
- (3) Resin Powder for forming
- (4) Water Grinding Paper #220

4. Testing Method and Order

- (1) Sample specimen that can fit to the Ø 32 former by cutting with a microcutter.
- (2) In general, mounting shall be done by cutting the specimen section perpendicularly. You shall be cautious with that heat processed products (Carburizing, nitration, etc.) would not affected by heat.

(If they are affected by heat when cut, the depth of carburizing or structure condition can be uneven or abnormal.)
- (3) Make it flat by grinding the sample specimen surface with water grinding paper #220.
- (4) Maintain the temperature of former to be 140 ~ 170 °C.
- (5) Put it on Ø 32 hole of the former as the specimen surface to be tested goes bottom.