

KES

**Microscopic Testing Method of
Non-Metallic Inclusions in Steel**

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1. Scope of Application

This standard determines the testing method that judges pureness of steel by measuring types of its non-metallic inclusions and quantity with a microscope.

2. Test Method

- (1) Specimen
- (2) Microscope
- (3) Latticed Net: horizontal (20) x vertical (20)

3. Testing Method and Order

3.1 Specimen Sampling Method

- (1) Pick up the testing material by cutting rolled or forged steel vertically to the rolling or forging direction with enough length to sample a specimen.
- (2) Pick up the specimen by cutting the testing material following its centerline horizontally to the rolling or forging direction.
- (3) For the specimen, testing surface shall be from the surface of testing material to the surface that includes the centerline. Testing surface shall be, as the rule, 300 mm².

Figure 1 and 2 shows the specimen sampling method for circle and rectangular type.

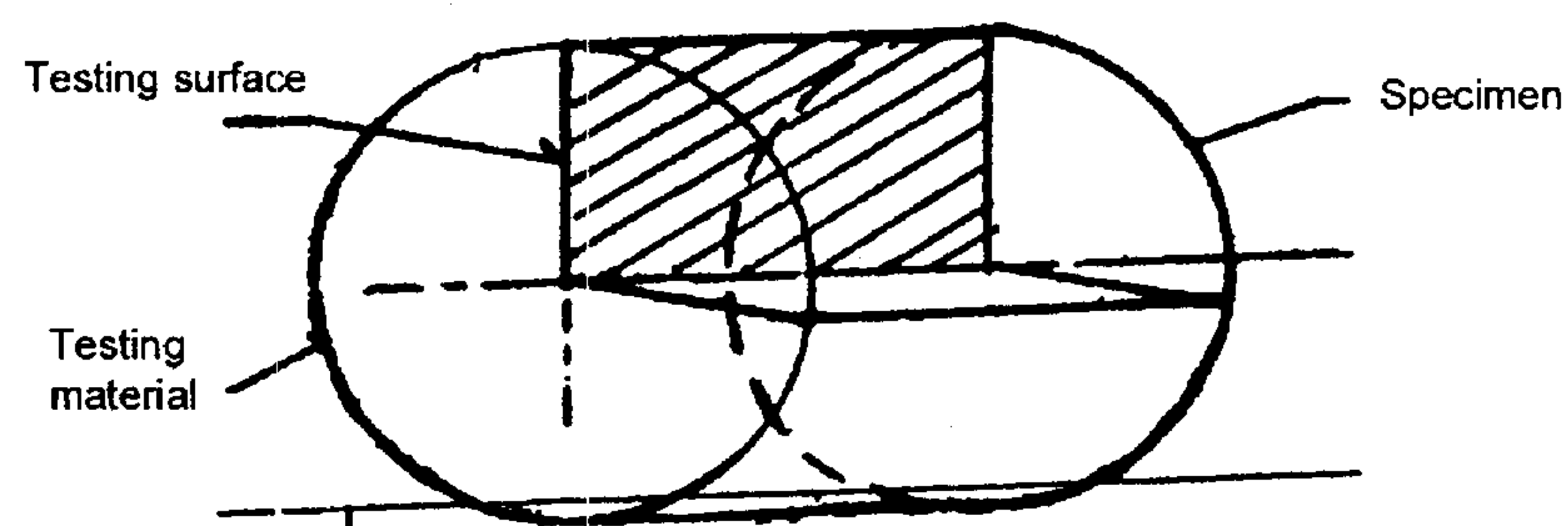


Figure 1. Specimen sampling method for circle type