

KES

Method of Sulfur Printer Test for Steel

KES T – K018

(EST.) 1988 – 12 – 12

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1. Scope of Application

As this standard is to observe the distributed state of sulfur, it shall be applied for every kind of steel. Except the surfer of KS D 3567 and things that include a lot of sulfur such as sulfur-included rapidly ground steel.

2. Test Instruments

- (1) Normal Photographic Paper
- (2) Scissors
- (3) H_2SO_4 water dissolution (1 ~ 5 %)
- (4) cotton
- (5) Fixing Fluid (T.O NaSO_4 for photo) → 15 ~ 40 %

3. Testing Method and Order

- (1) From forged and rolled steel, cut a plate shape specimen vertically to the processing axis.
- (2) The roughness of the surface to be tested shall be 6.3 ~ 12.5 S.
- (3) Submerge the cut photographic paper in H_2SO_4 water dissolution (1 ~ 5 %) in order to soak it (For 5 minutes). Take it out and absorb the water with cotton. (You must do this at a darkroom.)
- (4) Attach the photographic paper to the testing surface, and leave it for 3 minutes. Detach the photographic paper. (You shall get rid of air bubbles with cotton so that the photographic paper doesn't wrinkle.)
- (5) Leave the detached photographic paper in T.O NaSO_4 water dissolution for 5 ~ 10 minutes at the room temperature. Wash it in running water for more than 30 minutes.
- (6) Observe the distributed state of sulfur on the dried photographic paper.