

KES

The Method of Ion Coating

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1. Scope of Application

This standard determines the method that conductrizing-coats a specimen by using IB-3 type ion coater when making a specimen for injection type electronic microscope.

2. Test Instrument

- (1) Specimen Mount (32, 15, 9)
- (2) Double layer Glue
- (3) Conductible Resin Material
- (4) Ion Coater: Refer to figure 3. (IB-3 type)

3. Testing Method and Order

- (1) Sample a specimen that can fit to the specimen mount.
- (2) Glue the specimen on the specimen mount with double layer glue.
- (3) Unscrew the chamber rig, and open the top cover.
- (4) Put the mount in, close the top cover, lock the chamber rig knob, and lock the R. P. rig.
- (5) Set the power switch to EVAC, and rotate it parallel to the axis while pushing the main cock.
- (6) Wait for 10 minutes until the vacuum state becomes stable less than 0.1 Torr.
- (7) Set the power switch to Hv.
- (8) Set the Hr control knob to 5 while pushing the fresh switch.
- (9) Slowly rotate the Hv control knob to 6.7~10.

Here, although the Hv control knob goes to 10, if the ion current is less than 2 mA, it shall not be discharged because the vacuum in the glass chamber is so strong.