

TECHNICAL NOTES

REPLICATING SHEET

PRODUCT NO. 44846

- This material is 35 micrometer (.0014 inch) thick cellulose acetate. It is soluble in acetone.
- For sample preparation, cut out a piece of the replica material of a size suitable to cover the area to be replicated. Place a drop or two of acetone on the specimen surface and apply the replica film immediately. Allow surface tension forces to pull the film down against the specimen; no pressure is required. The film should be left to dry for about 10 minutes; it will then separate very easily from any reasonably flat surface.
- The replica can be stretched between two pieces of cellulose tape, structure side outwards, wrapped around a microscope slide, and placed in a vacuum coating unit for shadowing and carbon evaporation. (Depending on the type of tape used, there may be outgassing in the vacuum chamber from the adhesives on the tape.)
 - The area of interest should be cut from the film and laid, carbon side up, onto microscope grids on a wire mesh standing in a dish of acetone, with the acetone just touching the bottom of the mesh.
- After one hour, remove the grids from the mesh and wash individually in acetone before drying. After drying, the grids with the replica are ready for examination in the TEM.

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