

DCF Capillary Film

Diazo-Based Capillary Film

Description

SAATI DCF Series Capillary Film is designed for use with all solvent based inks. It varies in color depending on micron thickness and comes in six different thicknesses. For directions on the use of the 15-micron film, please request the DCF-15 data sheet.

Film Thickness

Film Thickness	
Product	Thickness
DCF - 18	18µm
DCF - 25	25µm
DCF - 30	30µm
DCF - 35	35µm
DCF - 50	50µm

Sample roll: 26" x 100"

Standard roll: 26" x 500" and 48" x 300"

Custom Sheets Available On Request.

Film Storage

Opened and unopened rolls or sheets of film should be stored at temperatures of less than 27°C/80°F for maximum shelf life.

Handling the Film

The film should be handled under low wattage tungsten or yellow fluorescent lighting. The film should be returned to the container after cutting off the required length. Do not kink the film as this could affect adhesion to the mesh. The film should be handled wearing light cotton or lint-free gloves to avoid contact with the emulsion surface. Do not allow the film surface to come in contact with water.

Mesh Preparation

All new mesh should be abraded vigorously on the printing side with SAATI Direct Prep 1 before use. SAATI Direct Prep 2 should be used to provide an even water break and to improve adhesion.

Adhering to the Mesh

Large and Small Screens: Cut the film to size and place the film on a dry, flat surface. Roll the film, emulsion side out, around a plastic tube leaving approximately 2.5 cm/1" unrolled. Spray the mesh with water and wipe the excess water from the perimeter of the frame to avoid water drops running into the adhered film.

Contact the rolled film leading edge onto the top of the wet vertical screen and unroll the film down the screen, thus adhering it to the mesh. Remove excess moisture from the inside of the screen with a light weight window squeegee. Wipe excess water from the perimeter of the frame with an absorbent cloth then proceed to drying.

Small Screens Only: Place the film, emulsion side up, on a raised pad and lay the dry degreased screen on top. Using a hand spray water bottle, spray water onto the mesh until the film is completely wet. Squeegee off the excess water from the inside of the screen.

Wipe water from the perimeter of the frame, then proceed to drying.



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Drying the Screen

The screen can be dried with either cold or warm air, but at a maximum of 37.7°C/100°F. Thorough drying is essential for optimum results. When the support has been peeled off, continue drying for a few minutes to ensure the film is completely dry. Drying should be in either dark or yellow light conditions.

Storage of Screens

After applying the film to the screen and drying, the screens can be kept in the dark for up to a week before exposure, provided that reasonable temperature and humidity conditions are maintained. If storage of the screens is anticipated, it is recommended that the backing sheet is not removed until the screen is about to be exposed.

Exposure

These films typically expose at the same exposure times as other major brand capillary films. You can generally expose at those times and achieve good results. Exposure targets will vary with mesh count, color, distance and type of light source.

Developing

Spray both sides of screen with approximately 27°C/80°F water spray to start washout. The majority of spray should be done from the printing side until image is completely defined. Finish washout by spraying inside of screen to remove any stencil residue.

Reclaiming

After printing scrape excess ink from screen and then clean stencil with Remove IR18 or IR26. Rinse screen then strip stencil with ready to use Remove ER5 or diluted Remove ER2, ER6, or ER10 according to instructions included with product. Remove ghost image with a second application of Remove IR18 or IR26 followed by high pressure wash.

For stubborn stains it is necessary to apply a caustic haze remover such as Remove HR3, HR9, or HR12 and follow the product working instructions.