

DCF1 Capillary Film

DESCRIPTION

DCF1 is a diazo - presensitized Series Capillary Film designed for use with all solvent/UV based inks. It comes in different thicknesses as follows :

DCF1 -18	18 micron
DCF1- 22	22 micron
DCF1- 25	25 micron
DCF1 -28	28 micron
DCF1- 35	35 micron
DCF1 -50	50 micron

Maximum resolution and edge definition
 Suitable for use with stainless steel wire mesh
 Excellent resistance to, solvent-based and UV-cured inks
 Available in standard roll size 104 x 100 and in custom sheets sizes.

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

Direct Prep 2 is a strongly recommended in order to provide an even water break and to improve adhesion. To obtain better results in terms of adhesion and resistance during printing, we recommend to use our SAATILENE Hibond Plus mesh, that also doesn't require any pre-treatment.

Recommended fabrics

Here following we suggest fabrics that can be used according to the thickness and areas of application :

DCF1 -18	120<->165 Mesh/cm	Uv printing,very high definition and resolution
DCF1- 22	100<->150Mesh/cm	Uv printing,very high definition and resolution
DCF1- 25	100<->140Mesh/cm	Uv printing,very high definition and resolution
DCF1 -28	90<->130Mesh/cm	Fine grafic medium halftones
DCF1- 35	71<->110Mesh/cm	General grafic printing
DCF1 -50	43<->77Mesh/cm	Solder mask and grafic printing

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 2cm 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 to 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 screen 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 and the proceed to drying.

Drying the screen

The screen can be dried with cold or warm air, maximum 104°F. Thorough drying is essential for optimum results. When the support has been peeled off, continue drying for a few minute 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 screen can be kept in the dark before exposure, provided that reasonable temperature and humidity conditions are maintained. If storage of the screen is anticipated, it is recommended that the backing sheet is **not** removed until the screen is about to be exposed.

Exposure

Starting point exposures with metal halogen lamp at 100 cm distance on dyed 120 mesh fabrics are listed below. Exposure will vary with mesh count, colour, distance and lamp type.

DCF1-18	60ul
DCF1-22	75ul
DCF1-25	85ul
DCF1-28	100ul
DCF1-35	135ul
DCF1-50	190ul

Develop

Spray both side of screen with water 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.

Dry stencil

Place developed screen into a screen dryer. Make sure screen is fully dry before use.

Reclaiming

Removal of stencils is easy when using Remove ER product range. Allow the remover to do the majority of the work. Finish removal with high-pressure washer when stencil has started to run down screen. Do not allow the stencil remover to dry out the screen before high-pressure washout.

Stability

Rolls or films opened or closed should be stored at temperatures not exceeding 80°F to maintain their properties. When sealed in the original container, protected from light, humidity and heat, DCF1 Capillary Films have a stability around 12 months from the date of production.

WARRANTY AND LIMITED REMEDY

The directions, recommendations and specifications contained in this Technical Data Sheet are meant as a guide to the use of the product and shall not bind the company. Product specifications are subject to change without notice.

The following is made in lieu of all other expressed or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose: all Saatichem manufactured liquid products are warranted to be free of defects in materials and manufacture and to meet the specifications stated in Saatichem applicable Product Bulletin. Saatichem will replace or refund the price of any Saatichem manufactured liquid product that does not meet this warranty within the applicable warranty period.

The remedies are exclusive. In no case shall Saatichem be liable for any other direct or indirect damage or loss, including without limitation any incidental, special or consequential damages, or any material costs or labor charges incident to the removal or replacement of any mesh, screen, ink, substrate, finished graphic or any other item.