



Capillary

DESCRIPTION

SaatiPrint 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 THICKNESSES

DCF-18	18 microns	DCF-35	35 microns
DCF-25	25 microns	DCF-50	50 microns
DCF-30	30 microns		

Available in roll sizes: 26"x500" and 48"x500". Sample size: 26"x100". Also available in custom sheet sizes.

FILM STORAGE

Opened and unopened rolls or sheets of film should be stored at temperatures of less than 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 SaatiChem™ Direct-Prep1 before use. SaatiChem 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 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 cold or warm air, maximum 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. Starting point exposures at 40" on colored 230 mesh are listed below. Exposures will vary with mesh count, color, distance and lamp type.

TYPICAL EXPOSURES

FILM	METAL		FILM	METAL	
	HALIDE	SECONDS		HALIDE	SECONDS
DCF-18	2KW	60-90	DCF-18	5KW	25-45
DCF-25	2KW	90-120	DCF-25	5KW	30-50
DCF-30	2KW	30-45	DCF-30	5KW	10-20
DCF-35	2KW	120-150	DCF-35	5KW	60-90
DCF-50	2KW	150-180	DCF-50	5KW	80-120

DEVELOP

Spray both sides of screen with approximately 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.

DRY STENCIL

Place developed screen in front of fan or in screen dryer. Make sure screen is fully dry before use. Do not exceed 100°F when drying.

RECLAIMING

Removal of stencils is easy. Spray SaatiChem Remove 1 on back or both sides for faster removal. Finish removal with high-pressure washer when stencil has started to run down screen. Allow the remover to do the majority of the work. Do not allow the stencil remover to dry out on the screen before high-pressure washout.

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