



Dye inks are one of the most common type of ink used for ink jet printers. Made by dissolving the colorant in a liquid, these inks have long been used because of their color richness and clarity, and because they are inexpensive to produce, and therefore inexpensive to purchase. Dye inks for Epson printers are extremely popular, pairing great print quality, with intense, durable colors. These inks have always provided the widest variety of colors, especially when other types of inks could only provide a few different colors.

While not as water-resistant or weather-resistant as other inks on the market, dye sublimation ink for Epson, HP, Fuji, and other brands of printers are popular because of their color vibrancy. For the highest-quality and clearest prints, these inks are still the inks of choice. Best for indoor use or for short-term outdoor use, the sheer flexibility of dye ink makes it an excellent choice for many different applications. Recent improvements in dye ink formulation has made them more resistant to color fade and weathering.

While these inks are ideal for a wide variety of application, they are often used for screen and clothing printing, because they adhere well to fabrics. Photo printing of any kind, whether for banners, billboards, displays, etc., has always made use of dye ink, because of the depth and vibrancy of color that it can provide to these materials.

The process of producing disperse dye inks:



Skyinktex dyes → Stirring & Mixing → Filtration → Performance test → Disperse dye ink

Referenced recipe of disperse dye inks:

Dispersion liquid of Skyinktex dyes (particle size ≦ 200nm)

- Diglycol
Surfactant
Bacteriostatic agent
Stabilizer
Water

1.HEAT TRANSFER PRINTING PROCESS:

Transfer paper → Ink-jet printing → Printed paper + polyester fabric → Hot-pressing transfer printing → Products

Table with 4 columns: Fabric Name, Temperature of transfer printing, Pressure, Time. Rows include Polyester Fabric, Polyester low flexibility Fabric, Three-acetate fiber fabric, Nylon Fabric, Acrylic Fabric, Two-acetate Fabric, Gather propionitrile Fabric.

2.DIRECT INK-JET PRINTING PROCESS

Fabric pretreatment → Ink-jet printing → Steaming or heat treatment → Aftertreatment (Washing..etc)



Table with 9 columns: No., Product Name (DISPERSE DYES), Color Sample, Light Fastness, Washing (Pes, Co), Sublimation, Perspiration, Rubbing. Rows 1-11 list various Skyinktex dye products and their performance metrics.

Properties:

- Excellent dispersion property
Small particle size
Excellent performance for Sublimation inks and digital ink-jet inks
Good Producibility and Brilliance on the dacron fabric