

# TEXCHARGE TC

TEXTILE

Garment Printing

## DYE Discharge Textile Ink

### Features

- Exceptionally Soft Hand
- 10 Ready-For-Use Toners
- Extremely Bright and Clean Colors
- Seritone Color Matching System
- Excellent Printability and Screen Stability
- Low Odor
- Superior Washfastness
- Resistant to Dry Cleaning and Ironing

### Applications

Suitably Dyed:

T-Shirts

Sweat Shirts

Sportswear

Fashion Wear

### Printing Recommendations

Stir well before every use. Use in a well-ventilated area.

### TexCharge Activator

Prior to use, 6% (maximum by weight) TexCharge Activator must be thoroughly mixed into all TexCharge inks, except reds and fluorescent colors, which require 4.5%. Too much activator will reduce color brilliance. Once TexCharge Activator is added, TexCharge inks have a working life of eight hours. The activator should be thoroughly mixed into the required color in a well-ventilated area.

### Thinning

If necessary, thin up to 10% with water.

TC-RT Retarder may be used at 3-5% to help slow the drying. The addition of retarders may increase the time you need allow in the dryer. Please test for cure if TC-RT is used.

### Mesh

60 to 305 (24 to 120/cm) monofilament screens. Note: Color brilliance is dependent on saturation of the fabric and how heavily the garment is dyed.

### Stencils

Stencil materials should be water and solvent resistant. Dirasol SuperCoat 916 emulsion is recommended to give the highest print quality, minimize deposit variables and improve economy.

### Coverage

110 (40/cm) monofilament screens should yield up to 600-700 square feet (10-14 m<sup>2</sup>/kg).

### Wash-up

Wash-up with water if ink has not been allowed to dry into the screen. Dried-in ink must be washed out with Fujifilm Sericol Universal Screen Wash or a Fujifilm Sericol Ink Degradent.

### Drying and Curing Information

TexCharge inks must be heat cured in order to produce a discharge result. The curing schedule should be chosen to suit both the discharge ability and the heat resistance of the fabric concerned.

Care must be taken when using infrared dryers to ensure that prints are fully cured, or wash fastness may be impaired.

The best results are achieved when prints are discharged immediately after printing.

It is essential that drying equipment be fitted with adequate fume extraction.

### Curing Schedules

TexCharge TC inks must be heat cured at 320° - 360°F (160° - 180°C) for two to three minutes. High volume forced air is recommended.

### Fastness

TexCharge has very good washfastness, resists dry cleaning, and direct ironing. Due to variations in fabrics and drying/curing conditions, it is essential that the fastness properties are proved suitable before beginning production.

Product Information

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## Textiles

TexCharge is designed to be printed on cotton fabrics that have been prepared specifically for discharge printing. In general, any fabric that can be colored with dyes that are suitable for discharge printing can be used. However, if a fiber blend is used that requires more than one family of dye, the possibility of incomplete discharge is increased.

Consult your garment supplier or dye manufacturer for proper selection of dischargeable garments and/or dyes.

**It is essential that all batches of fabric be pre-tested under production conditions to ensure that acceptable results are achieved.**

## Garment Labeling

Due to variations in printing and drying conditions, it is possible for residual chemicals, both from TexCharge inks and discharged dyes, to remain on the garment.

Although independent studies have shown little or no risk of skin irritation through contact, it is recommended that garments be labeled "Wash before wearing" to prevent contact through sucking, chewing, or wearing.

## Packaging

TexCharge inks are available in gallon, 5-gallon, and 30-gallon containers. TexCharge Activator is available in 200 grams containers only.

## Color Range

TexCharge inks are available in 10 colors of the Seritone Matching System, five fluorescent shades, four-color process, Black, Tinting White, and HO White. For additional economy, TC-381 Extender Base is available for mixing into any color where lower color strength can be tolerated.

## The Seritone Matching System

The Seritone Matching System has been developed to enable printers to quickly and economically match a wide variety of special shades. It consists of 10 Seritone Base Colors (marked SMS) which have been selected for their cleanliness of tone, color strength, and suitability for intermixing. It is imperative that matched colors are assessed with activated ink on the actual fabric to be printed.

## Seritone Colors

TC-001	Black
TC-021	White
TC-311	HO White
TC-046	SMS Yellow Red Shade
TC-057	SMS Yellow Green Shade

TC-103	SMS Orange
TC-122	SMS Red Yellow Shade
TC-132	SMS Violet
TC-153	SMS Red Blue Shade
TC-154	SMS Magenta
TC-217	SMS Blue Red Shade
TC-218	SMS Blue
TC-316	SMS Green
TC-381	Extender Base

## Halftone Colors

TC-HTY	Halftone Yellow
TC-HTR	Halftone Red
TC-HTB	Halftone Blue
TC-HTK	Halftone Black

## Fluorescent Colors

TC-053	Fluorescent Yellow
TC-105	Fluorescent Orange
TC-137	Fluorescent Red
TC-139	Fluorescent Magenta
TC-312	Fluorescent Green

## Additives

8602391	TC-747 – Activator 200 grams (gallon unit, 6% by weight)
8602395	TC-747 – Activator 1000 grams (5 gallon unit, 6% by weight)
8602399	TC-747 – Activator Bulk (220 lb. drum, 100 kg)
TC-RT	Retarder

## Storage

Store at room temperature away from heat and cold.

## Safety and Handling

TexCharge is formulated with pigments that are free of lead or other heavy metals. If certification is required, contact your Fujifilm Sericol Customer Service Representative for details.

Activated ink has a working life of approximately eight hours. Ink left over at the end of a printing run should be placed in sealed containers and disposed of in accordance with local, state and federal regulations.

Prior to use, consult Material Safety Data Sheet for proper safety, handling and disposal information.

*The information and recommendations contained in this Technical Data Sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Technical Data Sheet out of date and users are requested to ensure that they follow current recommendations.*

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