



TexCharge TC Discharge Ink System

TexCharge TC is a discharge ink system which produces exceptionally bright, soft handle prints on suitably dyed fabrics.

Approved to the GOTS Standard



Many TexCharge TC colours have been approved by Soil Association Certification Ltd. to the Global Organic Textile Standard (GOTS). In order to eliminate the presence of chemical by products from the discharge bleaching process it is important that garments are washed as part of the manufacturing process. Only those colours marked in the Colour Range section below have been approved. Other inks, thinners and additives may not be added to these colours if they are being used as part of an organic textile production process that is certified to the Global Organic Textile Standard. All containers of approved colours are clearly marked with a 'Soil Association Approved' label, and only products bearing this label are approved. For further details please go to www.sacert.org

Curing Information

TexCharge TC inks must be heat cured to produce the discharge result. The curing schedule should be chosen to suit both the dischargeability and heat resistance of the fabric. Care must be taken when using infra-red dryers to ensure that prints are fully cured. Best results are achieved when prints are fully cured immediately after printing.

Under curing may result in a white, powder-like deposit on the surface of the print over a period of days. The deposit will be removed by machine washing. Under curing may also result in reduced wash fastness. **It is essential that drying equipment is fitted with adequate fume extraction.**

Fastness

When used in accordance with our recommendations, light fastness is typically at least 6 on the Blue Wool Scale and the inks have excellent wash fastness to I.S.O. Tests No. 1 (40°C), 2 (50°C) and 3 (60°C).

The colours also have very good resistance to dry cleaning and direct ironing. Please note that an adequate deposit of ink must be applied, or wash fastness may be reduced.

Washing and Garment Labelling

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

It is recommended that garments should be washed after printing. Any garments that have not been washed should be labelled 'Wash before Wearing'. Approval of TexCharge TC to by Soil Association Certification Ltd. to the GOTS standard requires prints produced with TexCharge TC to be washed as part of the manufacturing process.

Main Characteristics

Drying

Must be heat cured. 160°C for 2-3 minutes.

Thinning

If necessary, thin with up to 5% water.

Wash-up

Wash up with water, if ink has not been allowed to dry into the screen. Dried ink must be washed out with ZT639 Screen Wash Universal.

Mesh

Monofilament 34-62 for line colours.
Monofilament 90 for trichromatic printing.

Stencil Type

Stencil must be water resistant. For optimum stencil life treat with Sericure Stencil Waterproofing Agent.

Recommended: Dirasol 916, Dirasol 25 or Dirasol 125 with SZP65 Diazo Sensitiser

Coverage & Mesh No.

Up to 10-14 m²/kg. No. 43

Applications

T-shirts, sports and fashion wear.

Fabrics

100% Cotton. Only fabrics specifically prepared for discharge printing.

Colour Range

16 including an optic white, Seritone Matching System, trichromatics and extender base.

Properties

Brilliant colours - even on dark garments.

Exceptionally soft handle.

Excellent wet-on-wet printability.

Good wash and dry clean resistance.

Ironable.

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IMPORTANT:

Stir well before every use. If a fibre blend is used that requires more than one family of dyestuff, the possibility of incomplete discharge is increased. It is essential that all batches of fabric are pre-tested under production conditions to ensure that acceptable results and fastness are achieved.

Trichromatic Printing

The range includes three trichromatic colours. With these colours, plus TC001 Black and TC021 White, true trichromatic prints on dark fabrics are possible. The following guidelines are recommended:

1. Positives should be prepared at 50 lines per inch (20 per cm) halftone count. Optimum colour density is achieved through 90T mesh although, depending on the fabric to be printed, finer halftones/mesh counts can also produce good results.
2. It is essential to print a white plate (shadow plate) for highlight areas. Flash curing is not required.
3. A colour sequence of White, Yellow, Cyan, Magenta, Black is recommended (it is not necessary to activate the Black).

TexCharge TC Activator

For convenience and accuracy, TexCharge TC Activator is supplied in pre-measured containers for both of the standard pack sizes of ink. Prior to use, TexCharge TC Activator must be mixed into TexCharge TC inks in the following proportions (working life - 8 hours):

| | |
|------------------------|---------|
| TexCharge TC Ink | 4.25 kg |
| TexCharge TC Activator | 250 g |

The Activator should be thoroughly blended into the required colour in a well ventilated area.

Colour Matching

TC103 should not be used in a colour match with TC001. This is due to a potential reaction between the orange pigment in TC103 with black pigment in TC001 that may lead to the detection of an aromatic amine listed in Appendix 8 of the REACH Regulation (formerly covered by Directive 2002/61/EC). TC001 and TC103 can be expected to pass tests carried out in accordance with the test methods set out in Appendix 10 to the REACH Regulation (as amended), either on their own or mixed with any other colour from the TexCharge TC range.

The Seritone Matching System

The Seritone Matching System enables printers to readily and economically match a wide variety of special shades. It consists of 9 lead-free Seritone base colours selected for their cleanliness of tone, colour strength and suitability for intermixing. It is imperative that matched colours are assessed with activated ink on the actual fabric to be printed.

Special Matches

Matches can be supplied against prints, wet ink samples or to PANTONE** references, British Standard, 'HKS', 'Munsell', or 'Seritone' numbers. A sample of the substrate to be printed with the number and type of mesh to be used as well as other relevant data should be attached to orders.

Minimum quantity 5 ltrs.

Colour Range

TexCharge TC inks are available in 16 intermixable colours including the Seritone Matching System and 3 trichromatics. TC025 Optic White does not share the same wet-on-wet print properties as the other colours. It should be printed last down. TC381 Extender Base is also available for mixing into any colours where a lower colour strength is required.

TexCharge TC:

| | | |
|-----------|---------------|---|
| TC001 | Black | * |
| TC021 | White | * |
| TC025 | Optic White | * |
| TC057 (S) | Primrose | * |
| TC046 (S) | Golden Yellow | * |
| TC103 (S) | Orange | * |
| TC122 (S) | Scarlet | * |
| TC153 (S) | Carmine | * |
| TC154 (S) | Fuchsia | * |
| TC132 (S) | Violet | * |
| TC218 (S) | Azure | * |
| TC316 (S) | Sea Green | * |
| TC381 | Extender Base | * |

Available in 4.25 kg containers.

(S) = Seritone Base Colours

Trichromatics inks

| | |
|-------|----------------------|
| TC052 | Trichromatic Yellow |
| TC135 | Trichromatic Magenta |
| TC215 | Trichromatic Cyan |

Available in 0.85 kg containers.

Products marked with * are approved by Soil Association Certification Ltd. to the Global Organic Textile Standard (GOTS).

TexCharge TC Activator

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|-------|--------------|
| TC747 | TC Activator |
|-------|--------------|

Available in individual 250g containers, or in a box of 12 x 250g containers (3 kg)

Ancillary Products

During printing, fabrics have to be held to the table by means of a pressure sensitive adhesive to ensure good definition is obtained. FlashFix and T-Fix Extra Spray Adhesives are suitable for this purpose. (See relevant Product Information Sheets).

Fujifilm Speciality Ink Systems Limited:

- Has certification to the International Environmental Standard, ISO 14001
- Is committed to minimising the risk to users of our products, and also to minimising the impact of our activities on the environment, from formulation through to production and supply.
- Research & development team, work to an in house Health, Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reducing waste through better use of raw materials, energy, water, re-use and recycling.

Safety and Handling

TexCharge TC:

- Is formulated to be free from any chemicals toxic to health, carcinogenic, mutagenic or reprotoxic according to Directive 67/548/EC.
- Is formulated free from lead and other heavy metals and is tested to comply with the EN71-3: 1995 Toy Safety Standard.

Comprehensive information on the safety and handling of TexCharge TC screen inks is given in the appropriate Safety Data Sheets.

Environmental Information

TexCharge TC:

- Does not contain ozone depleting chemicals as described in the Montreal Convention.

TexCharge TC Activator:

- Does not contain ozone depleting chemicals as described in the Montreal Convention.
- Is free of any volatile solvent and can therefore be considered to have less impact on the environment, when compared with solvent-based products.

Oko-Tex standard 100

Contact your Fujifilm supplier for the latest information concerning the compliance of Fujifilm Inks.

*PANTONE® is the property of Pantone, Inc.

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of Fujifilm Speciality Ink Systems Limited and its associated companies, 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 Product Information sheet out of date and users are requested to ensure that they follow current recommendations.



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