

Technical Data Sheet

Dokumental® TS 96xx T-Shirt Marker Inks

Permanent T-Shirt Marker Inks

General Information

The inks of Dokumental® TS 96xx series are pigmented inks with high light fastness. They are suitable for painting on fabrics and are permanent without ironing (laundry safe up to 60°C).

Suitable Surfaces

Textiles

Physical Data

Type	Colour	Viscosity at 20°C mPa s ± 0.5	Surface tension mN/m ± 2.0	pH-Value ± 1.0	Density at 20°C g/cm ³ ± 0.02
Dokumental® TS 9600.2	blue	4.6	41.0	8.3	1.06
Dokumental® TS 9601.2	light blue	4.6	41.0	8.3	1.07
Dokumental® TS 9602.2	pale blue	3.5	41.0	8.3	1.05
Dokumental® TS 9610.2	black	5.2	41.0	8.3	1.07
Dokumental® TS 9612.2	grey	3.6	40.4	8.3	1.06
Dokumental® TS 9620.2	red	5.2	41.5	8.3	1.06
Dokumental® TS 9622.2	rose red	4.4	40.4	8.3	1.06
Dokumental® TS 9623.2	skin	3.6	41.2	8.1	1.06
Dokumental® TS 9630.2	green	4.9	41.0	8.3	1.07
Dokumental® TS 9631.2	yellow green	5.3	41.0	8.3	1.06
Dokumental® TS 9640.2	violet	4.1	39.0	8.3	1.05
Dokumental® TS 9642.2	elder	3.6	41.0	8.3	1.05
Dokumental® TS 9650.2	brown	5.2	41.0	8.3	1.05
Dokumental® TS 9651.2	light brown	3.9	41.0	8.3	1.05
Dokumental® TS 9660.2	yellow	7.3	41.0	8.3	1.07
Dokumental® TS 9661.2	yellow orange	5.2	41.0	8.3	1.04
Dokumental® TS 9662.2	orange	4.0	41.0	8.3	1.05
Dokumental® TS 9670.2	magenta	5.4	41.0	8.3	1.05
Dokumental® TS 9671.2	light pink	3.6	41.0	8.3	1.06
Dokumental® TS 9680.2	beige	3.8	41.0	8.3	1.05
Dokumental® TS 9681.2	yellow fluo	5.5 (± 1.0)	36.0	6.5 (± 0.5)	1.06
Dokumental® TS 9682.2	orange fluo	5.5 (± 1.0)	36.0	6.5 (± 0.5)	1.06
Dokumental® TS 9684.2	pink fluo	5.5 (± 1.0)	36.0	6.5 (± 0.5)	1.06
Dokumental® TS 9685.2	green fluo	5.5 (± 1.0)	36.0	6.5 (± 0.5)	1.06

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Technical Advice

Suitable Components:

Nibs: polyester, acrylic with high porosity

Barrels, Caps and Plugs: polypropylene, polyethylene

Reservoir: polyester

It is mandatory to approve the compatibility of the ink and the components as well as the performance of the writing system.

Before use of our product the filling station has to be maintained and cleaned carefully. The inks are sensitive to any kind of contamination (e.g. chemical or microbial contaminations). Cross-contamination of the inks may lead to a colour mismatch or will even lead to a defective marker or shorter shelf life.

The inks contain biocides to prevent microbial growth, but for best protection we additionally recommend to ensure best hygienic conditions in production areas as well as cleanliness of all marker components.

Storage, Handling & Transportation

Store our product frost protected and avoid direct sunlight. The recommended storage temperature is between 10°C and 30°C. Storage temperatures of above 30°C for several days bear the risk of a reduced shelf life of the ink.

After usage the drums have to be closed again tightly.

Markers should be stored horizontally.

The applied inks should dry over night on the fabric. Fixing by ironing from the back side (iron set on cotton or level III, for 10 - 15 seconds) will increase the permanency of the markings. Ink-flow tests should be carried out on fabrics and not on paper.

Handling of bulk ink:

Stir well before use and stir ink during ink injection in order to avoid pigment sedimentation during filling process.

The shelf-life of the inks in originally sealed containers is 12 months.

Packaging

standard packaging: 20kg plastic canister (further packaging units on request)

Applicable Standards & Regulations on Request

Unless expressly agreed, no warranty is given that all standards & regulations relevant to the Customer's intended use have been and will be complied with. To the extent that compliance with certain standards & regulations is warranted, this warranty shall only apply at the time the underlying contract is entered into. There is no guarantee that the products will continue to comply with the standards & regulations in the event of future changes. Dokumental also assumes no obligation to inform the Customer of any changes to such standards & regulations that may be relevant to the Customer.

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