

Technical Data Sheet

Dokumental® NT5xx Fibre Pen Inks

Inks Based on Food-Dyes

General Information

The inks of Dokumental® NT 5xx series are designed for children's use. The raw materials contained in these inks are specially chosen to meet the relevant national and international regulations. The inks have the following features:

- Cap-Off Time at least four weeks under ISO 554 (23/50) conditions
- based on food dye stuffs
- stains should be removed from most textiles (cotton, polyester, acrylic and nylon fibres and their blends) by normal laundry procedures at 60°C.
- washable from skin with soap and water

Suitable Surfaces

For all kind of papers

Applicable Standards & Regulations on request

Physical Data

| Type | Colour | Viscosity at 20°C mPa s ± 0.5 | Surface tension mN/m | pH-Value | Density at 20°C g/cm ³ ± 0.02 |
|------------------------|--------------|-------------------------------------|-------------------------|-----------|--|
| Dokumental® NT 500.2 A | blue | 2.5 | > 40 | 7.5 - 9.0 | 1.03 |
| Dokumental® NT 501.2 A | dark blue | 2.5 | > 40 | 7.5 - 9.0 | 1.04 |
| Dokumental® NT 510.2 A | black | 2.9 | > 40 | 7.5 - 9.0 | 1.08 |
| Dokumental® NT 513.2 A | black | 3.1 | > 40 | 7.5 - 9.0 | 1.09 |
| Dokumental® NT 520.2 A | red | 2.5 | > 40 | 7.5 - 9.0 | 1.06 |
| Dokumental® NT 523.2 A | burgundy | 2.4 | > 40 | 7.5 - 9.0 | 1.05 |
| Dokumental® NT 530.2 A | green | 2.5 | > 40 | 7.5 - 9.0 | 1.06 |
| Dokumental® NT 534.2 A | yellow green | 2.7 | > 40 | 7.5 - 9.0 | 1.03 |
| Dokumental® NT 536.2 A | bluish green | 2.4 | > 40 | 7.5 - 9.0 | 1.06 |
| Dokumental® NT 540.2 A | violet | 2.5 | > 40 | 7.5 - 9.0 | 1.06 |
| Dokumental® NT 551.2 A | dark brown | 2.7 | > 40 | 7.5 - 9.0 | 1.07 |
| Dokumental® NT 553.2 | brown | 2.8 | 30.0 - 34.0 | 7.5 - 9.0 | 1.08 |
| Dokumental® NT 554.2 A | light brown | 2.7 | 30.0 - 34.0 | 7.5 - 9.0 | 1.08 |
| Dokumental® NT 564.2 | yellow | 2.6 | 30.0 - 34.0 | 7.5 - 9.0 | 1.08 |
| Dokumental® NT 565.2 | orange | 2.6 | 30.0 - 34.0 | 7.5 - 9.0 | 1.08 |
| Dokumental® NT 566.2 | yolk | 3.5 | 31.0 - 35.0 | 7.5 - 9.0 | 1.10 |
| Dokumental® NT 572.2 A | pink | 2.2 | > 40 | 7.5 - 9.0 | 1.05 |
| Dokumental® NT 573.2 A | lilac | 2.2 | > 40 | 7.5 - 9.0 | 1.06 |
| Dokumental® NT 580.2 A | turquoise | 2.3 | > 40 | 7.5 - 9.0 | 1.05 |
| Dokumental® NT 585.2 | olive | 3.2 | 29.0 - 31.0 | 7.5 - 9.0 | 1.10 |

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Technical advice:

Suitable Components

Nibs: polyester, acrylic, sintered polyethylene

The use of polyamide (Nylon) nibs is not recommendable due to possible colour changes

Reservoirs: polyester (the compatibility with acetate reservoirs must be tested in advance)

Barrels, Caps, Plugs: polypropylene, butadien-styrene, polyethylene

It is mandatory to approve the compatibility of the ink and the components as well as the performance of the writing system in advance. Cap and plug must close tightly.

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. Recommended storage temperature for the product is between 10°C and 30°C. Storage temperatures above 30°C for several days bear the risk of a reduced shelf life of the ink.

The shelf life of the inks in original sealed containers is two years. Make sure that the drums are closed tightly after they were opened.

Packaging

20 kg plastic drum

200 kg plastic drum

1,000 kg IBC

Produced by

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