

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

Certificates / Approvals / Regulations

ASTM D-4236: All inks are ASTM D-4236 approved. The finished markers need separate ASTM D-4236 approval

EN 71/3 (Safety of Toys, Migration of certain elements) and the US-Standard ASTM F963-91.

ISO 9001

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/cm³ ± 0.01
Dokumental® NT 500 NA	blue	2.3	55	6.5	1.08
Dokumental® NT 501 NA	dark blue	2.3	50	6.5	1.08
Dokumental® NT 510 NA	black	2.3	55	7.5	1.08
Dokumental® NT 511 NA	black	2.3	56	6.7	1.08
Dokumental® NT 520 NA	red	2.3	50	8.0	1.08
Dokumental® NT 521 NA	vermilion	2.3	60	9.0	1.08
Dokumental® NT 522 NA	burgundy	2.3	53	7.0	1.08
Dokumental® NT 530 NA	green	2.3	55	6.0	1.08
Dokumental® NT 531 NA	bluish green	2.3	44	6.0	1.08
Dokumental® NT 532 NA	yellow green	2.3	50	7.0	1.08
Dokumental® NT 540 NA	violet	2.3	55	7.5	1.08
Dokumental® NT 550 NA	brown	2.3	55	7.5	1.08
Dokumental® NT 551 NA	dark brown	2.3	55	7.5	1.08
Dokumental® NT 552 NA	light brown	2.3	55	8.0	1.08
Dokumental® NT 560 NA	yellow	2.3	55	6.0	1.08
Dokumental® NT 561 NA	yolk	2.3	55	7.4	1.08
Dokumental® NT 562 NA	orange	2.3	50	6.6	1.08
Dokumental® NT 563 NA	red orange	2.3	55	8.4	1.08
Dokumental® NT 570 NA	pink	2.3	50	7.0	1.08
Dokumental® NT 571 NA	lilac	2.3	55	7.2	1.08
Dokumental® NT 580 NA	turquoise	2.3	56	5.5	1.08
Dokumental® NT 581 NA	olive	2.3	60	7.5	1.08
Dokumental® NT 582 NA	slate grey	2.3	50	7.5	1.08

All inks are also available as concentrates K1 (Mixing ratio with demineralized water 1:1).

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Suitable Components

Nibs: polyester, acrylic, polyamide (Nylon), sintered polyethylene.
The compatibility with Nylon nibs has to be tested in advance

Reservoirs: cellulose acetate, polyester, polypropylene

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

Storage, Handling & Transportation

Store frost protected. Optimal storage temperature is between 0 and 30°C. Storage temperatures above 30°C can result in reduced shelf life of the bulk inks.

Packaging

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

Produced by

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