

# Technical Data Sheet

## Dokumental® FA 24xx Fibre Pen Inks

### Fibre Pen Inks in a Broad Range of Colours

#### General Information

The inks of Dokumental® FA 24xx series are our standard range of fibre pen inks. They are available in over 40 intense and brilliant colours.

#### Suitable Surfaces

For all kind of papers

#### Certificates / Approvals / Regulations

ASTM D-4236: <sup>1</sup> the marked 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/cm <sup>3</sup> ± 0.01
Dokumental® FA 2400	royal blue <sup>1</sup>	2.0	30.0	6.5	1.04
Dokumental® FA 2401	dark blue	2.5	30.0	4.0	1.04
Dokumental® FA 2402	brilliant blue <sup>1</sup>	2.5	31.3	4.3	1.04
Dokumental® FA 2404	light blue	2.5	29.2	6.6	1.04
Dokumental® FA 2405	cyan	2.5	29.0	6.4	1.04
Dokumental® FA 2410	black <sup>1,a</sup>	2.5	30.0	2.5	1.04
Dokumental® FA 2412	neutral grey	2.5	30.0	7.0	1.04
Dokumental® FA 2420	blaze red	2.5	32.0	8.5	1.04
Dokumental® FA 2421	carmine	2.5	31.6	8.4	1.04
Dokumental® FA 2422	dark red	2.5	31.5	9.5	1.04
Dokumental® FA 2423	carmesine	2.5	30.6	9.0	1.04
Dokumental® FA 2424	brick colour	2.5	32.5	9.1	1.04
Dokumental® FA 2425	salmon	2.5	30.5	7.8	1.04
Dokumental® FA 2430	green	2.0	29.1	7.3	1.04
Dokumental® FA 2431	light green	2.5	29.1	7.2	1.04
Dokumental® FA 2432	yellow green	2.5	28.8	7.5	1.04
Dokumental® FA 2440	violet <sup>a</sup>	2.5	30.0	2.5	1.04
Dokumental® FA 2442	violet blue <sup>1,a</sup>	2.5	30.0	3.0	1.04
Dokumental® FA 2450	light brown	2.5	29.5	7.5	1.04
Dokumental® FA 2451	dark brown	2.2	29.8	6.7	1.04
Dokumental® FA 2454	copper brown	2.5	30.0	7.0	1.04
Dokumental® FA 2460	yellow <sup>1</sup>	2.0	29.0	7.5	1.04
Dokumental® FA 2462	sunset yellow	2.5	29.0	7.4	1.04
Dokumental® FA 2463	golden orange	2.5	29.6	7.1	1.04
Dokumental® FA 2464	orange	2.5	30.0	7.5	1.04
Dokumental® FA 2465	deep orange	2.1	30.0	8.0	1.04
Dokumental® FA 2466	skin <sup>1</sup>	2.5	30.0	8.0	1.04

<sup>1</sup>ASTM D-4236 approved, <sup>a</sup> the compatibility of these inks with nibs made of NYLON has to be tested. All types available as concentrates K4 (Mixing ratio with demineralized water 1 : 4).

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Dokumental® FA 2471	pale pink	2.5	30.0	>7.5	1.04
Dokumental® FA 2472	rose <sup>1</sup>	1.9	30.0	8.0	1.04
Dokumental® FA 2473	pink <sup>1</sup>	2.5	29.0	7.5	1.04
Dokumental® FA 2474	magenta <sup>1, a</sup>	2.5	29.2	4.0	1.04
Dokumental® FA 2475	red lilac <sup>1</sup>	2.5	30.0	2.5	1.04
Dokumental® FA 2480	turquoise <sup>1</sup>	2.1	30.0	7.3	1.04
Dokumental® FA 2482	olive <sup>1</sup>	1.9	30.0	7.0	1.04
Dokumental® FA 2487	bluish green <sup>1</sup>	1.9	30.0	6.8	1.04

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**Suitable Components**

Nibs: polyester, acrylic, polyamide (Nylon), sintered polyethylene

Reservoirs: cellulose acetate, polyester, polypropylene

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

**Storage, Handling & Transportation**

Depending on water quality inks FA 2400 and FA 2410 made by concentrates should be decanted after a settling time of 24 hours.

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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