

Technical Data Sheet

Dokumental® FA 27xx Fibre Pen Inks

Colour Mixing Kit for Fibre Pen Inks

General Information

With the six basic colours of this mixing kit you can create your own colours or use our mixing table with 51 colour shades. All components of the mixing kit and the finished inks are CE (toys) compliant.

Suitable Surfaces

For all kind of papers

Certificates / Approvals / Regulations

Formulated to be in accordance with EN 71-9:2005+A1:2007 and EN 71-3:2013+A1:2014
 All inks are ASTM F963-91 compliant
 ISO 9001

Physical Data

Type	Colour	Surface tension mN/m ± 2.0	pH-Value ± 1.0	Density at 20°C g/cm ³ ± 0.01
Dokumental® FA 2710 A-K1	black	> 50	7.3	1.04
Dokumental® FA 2720 A-K3	red	> 48	6.4	1.04
Dokumental® FA 2740 A-K3	violet	> 46	6.0	1.04
Dokumental® FA 2760 A-K3	yellow	> 51	6.8	1.04
Dokumental® FA 2770 A-K3	pink	> 46	7.0	1.04
Dokumental® FA 2780 A-K3	turquoise	> 45	4.2	1.04
Dokumental® FA 2790 – Additive 1	colourless	28.5	6.3	1.04
Dokumental® FA 2792 – Additive 2	colourless	52.0	6.6	1.04

Suitable Components

Nibs: polyester, acrylic, polyamide (Nylon), sinte-red poly-ethylene
 Reservoirs: polyester, polypropylene
 Barrels, Caps, Plugs: polypropylene, ABS, butadien-styrene, polystyrene, polyethylene

Packaging

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

Produced by

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Storage, Handling & Transportation

All FA 2700 KX Series Concentrates demand careful handling and processing during processing.
 The filling station has to be maintained and cleaned carefully, in order to avoid colour mismatches due to contaminations. Optimal storage temperature is between 0° and 30°C. Store frost protected.

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Mixing with the mixing table

The following mixing table shows the easy way to mix colours with our mixing kit. The procedure is as follows:

1. add the amounts of concentrates as given (parts by weight) in the mixing table for the desired color.
2. fill up to 90 parts by weight with demineralized water and stir for at least 10 minutes without heating.
3. to adjust the desired surface tension of the ink, fill up the remaining 10 parts to 100 parts and stir
 - with FA 2792 – Additive 2 to obtain a surface tension of > 40 mN/m
 - with FA 2790 – Additive 1 to obtain a surface tension of 29 - 31 mN/mb)

Individual Mixing

To mix your individual colour-set you may use the colours given in the mixing table as a basis to build up your own colours by changing and varying the given mixing ratios. Of course you can also design your own individual mixing table based on your own needs and ideas.

It is recommended to do this on a small lab scale, first. After this you can proceed as described above.

You are totally free to choose your mixing ratios as long as the amount of concentrates does not exceed 30% of the ready made ink. For concentrations of concentrates greater than 30% the toxicological approvals (see Regulations) will expire.

No.	Colour	FA 2760 A-K3 yellow	FA 2780 A-K3 turquoise	FA 2740 A-K3 violet	FA 2720 A-K3 red	FA 2770 A-K3 pink	FA 2710 A-K1 black	Demin. water	Additive	Total
1	sulphur yellow	25.00	0.25					64.75	10.00	100.00
2	yellow	25.00						65.00	10.00	100.00
3	orange	25.00				1.00		64.00	10.00	100.00
4	light orange	3.0			0.50			86.50	10.00	100.00
5	red orange	20.0			5.00			65.00	10.00	100.00
6	skin	2.25			2.25			85.50	10.00	100.00
7	light red	12.50			12.50			65.00	10.00	100.00
8	yellow red	5.0			20.00			65.00	10.00	100.00
9	red				25.00			65.00	10.00	100.00
10	carmine			0.60	27.00			62.40	10.00	100.00
11	pale pink	1.50				3.00		85.50	10.00	100.00
12	pink	0.40			6.00			83.60	10.00	100.00
13	magenta red				12.50	12.50		65.00	10.00	100.00
14	burgundy			2.50	22.50			65.00	10.00	100.00
15	pink					11.00		79.00	10.00	100.00
16	magenta					25.00		65.00	10.00	100.00
17	red lilac			0,50		12.50		77.00	10.00	100.00
18	dark red violet			12.50	12.50			65.00	10.00	100.00
19	violet 1			12.50		12.50		65.00	10.00	100.00
20	violet 2			12.50		7.80		69.70	10.00	100.00
21	violet 3			15.60		6.20		68.20	10.00	100.00
22	pale violet			5.00		1.00		84.00	10.00	100.00
23	violet blue			25.00				65.00	10.00	100.00
24	dark blue		9.00	14.00			2.00	65.00	10.00	100.00

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25	sapphire blue		20.00		5.00			65.00	10.00	100.00
26	blue		12.50	12.50				65.00	10.00	100.00
27	light blue		6.00	5.00				79.00	10.00	100.00
28	cyan		25.00					65.00	10.00	100.00
29	turquoise		9.40					80.60	10.00	100.00
30	bluish green	2.50	22.50					65.00	10.00	100.00
31	dark green	8.00	13.00				4.00	65.00	10.00	100.00
32	olive 1	15.00	3.00	6.00				66.00	10.00	100.00
33	olive 2	17.00	5.20		2.80			65.00	10.00	100.00
34	green	10.00	15.00					65.00	10.00	100.00
35	light green	20.00	5.00					65.00	10.00	100.00
36	yellow green	10.00	1.00					79.00	10.00	100.00
37	curry	22.50		2.50				65.00	10.00	100.00
38	light brown	20.70	0.70		2.30			66.30	10.00	100.00
39	ochre	22.50	0.60		1.90			65.00	10.00	100.00
40	rose wood	5.00	0.25			1.50		83.25	10.00	100.00
41	brown	20.00		2.00	2.00			66.00	10.00	100.00
42	red brown	15.00	1.00			5.00		69.00	10.00	100.00
43	copper brown	12.00	1.00		12.00			65.00	10.00	100.00
44	brown 1	19.00	1.90	0.45	12.00			56.65	10.00	100.00
45	dark brown	15.00	2.50			5.00		67.50	10.00	100.00
46	brown 2	13.40	0.80	3.80	4.60			67.40	10.00	100.00
47	sepia	10.00	5.00		10.00			65.00	10.00	100.00
48	grey	0.35					2.60	87.05	10.00	100.00
49	warm grey	5.00	0.50	2.25	0.25	0.25		81.25	10.00	100.00
50	neutral grey	6.00	1.00	3.00	0.50			79.50	10.00	100.00
51	black						50.00	40.00	10.00	100.00