

## Fibre Pen Inks with extraordinarily long cap-off time

### General Information

The inks of Dokumental® RFA 12/xx series are water-based fibre pen inks. They have an extraordinarily long cap-off time and are therefore suitable for retractable systems. Cap-off time in classical reservoir markers has been tested to be longer than one year under climate condition ISO 554 (23/50). The inks are dye-based and are available in a large variety of standard, fancy and fluorescent colours.

### Suitable Surfaces

For all kind of papers

### Physical Data

Type	Colour	Viscosity at 20°C mPa s ± 1.0	Surface tension mN/m	pH-Value
Dokumental® RFA 12/1	black	26.0	> 45	5.0 - 7.0
Dokumental® RFA 12/2	red	21.0	> 45	6.0 - 8.0
Dokumental® RFA 12/3	light blue	23.0	> 45	4.0 - 6.0
Dokumental® RFA 12/4	green	22.0	> 45	6.0 - 8.0
Dokumental® RFA 12/13	yellow	23.0	> 45	6.0 - 8.0
Dokumental® RFA 12/14	pink	19.0	> 45	7.0 - 9.0
Dokumental® RFA 12/15	magenta	21.0	> 45	5.0 - 7.0
Dokumental® RFA 12/16	orange	21.0	> 45	6.0 - 8.0
Dokumental® RFA 12/17	violet	18.0	> 45	5.0 - 7.0
Dokumental® RFA 12/18	dark blue	18.0	> 45	4.0 - 6.0
Dokumental® RFA 12/20	brown	21.0	> 45	6.0 - 8.0
Dokumental® RFA 12/31	fluo yellow	22.0	> 45	9.5 - 11.5
Dokumental® RFA 12/32	fluo green	21.0	> 45	9.5 - 11.5
Dokumental® RFA 12/33	fluo orange	19.0	> 45	9.5 - 11.5
Dokumental® RFA 12/34	fluo pink	19.0	> 45	9.5 - 11.5
Dokumental® RFA 12/36	light blue	16.0	> 45	7.0 - 9.0

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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. The cap-off performance in retractable fibre pens has to be tested especially thorough.

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.

**Applicable Standards & Regulations**

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.

**Packaging**

20 kg plastic drum

200 kg plastic drum

1,000 kg IBC

**Produced by**

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Colour Chart:



Dokumental®  
RFA 12/1  
black



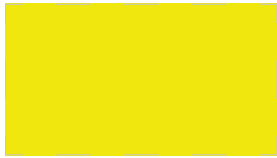
Dokumental®  
RFA 12/2  
red



Dokumental®  
RFA 12/3  
light blue



Dokumental®  
RFA 12/4  
green



Dokumental®  
RFA 12/13  
yellow



Dokumental®  
RFA 12/14  
pink



Dokumental®  
RFA 12/15  
magenta



Dokumental®  
RFA 12/16  
orange



Dokumental®  
RFA 12/17  
violet



Dokumental®  
RFA 12/18  
dark blue



Dokumental®  
RFA 12/20  
brown



Dokumental®  
RFA 12/31  
fluo yellow



Dokumental®  
RFA 12/32  
fluo green



Dokumental®  
RFA 12/33  
fluo orange



Dokumental®  
RFA 12/34  
fluo pink



Dokumental®  
RFA 12/36  
light blue