

Technical Data Sheet

Dokumental® ER 31xx Magic Inks

Erasable Fiber Pen Inks

General Information

The fibre pen inks of Dokumental® ER 31xx series are magic inks that can be erased using the erasing liquid Dokumental® LF 4205.1.

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 ± 2.0 | pH-Value ± 1.0 | Density at 20°C g/cm ³ ± 0.01 |
|-----------------------|-----------------|-------------------------------------|----------------------------------|-------------------|--|
| Dokumental® ER 3100 | blue | 2.4 | 29.8 | 4.9 | 1.04 |
| Dokumental® ER 3110 | black | 2.8 | 30.5 | 2.5 | 1.04 |
| Dokumental® ER 3120 | dark red | 2.6 | 30.0 | 2.4 | 1.04 |
| Dokumental® ER 3122 | carmine | 2.6 | 30.0 | 2.1 | 1.04 |
| Dokumental® ER 3124 | dark red | 2.4 | 31.0 | 2.8 | 1.04 |
| Dokumental® ER 3130 | green | 2.0 | 30.0 | 2.4 | 1.03 |
| Dokumental® ER 3131 | yellow green | 2.2 | 29.7 | 2.3 | 1.04 |
| Dokumental® ER 3132 | emerald | 2.5 | 28.8 | 2.4 | 1.04 |
| Dokumental® ER 3133 | turquoise green | 2.1 | 30.0 | 3.0 | 1.04 |
| Dokumental® ER 3139 | dark green | 2.4 | 30.0 | 2.2 | 1.04 |
| Dokumental® ER 3140 | violet | 2.6 | 29.6 | 3.2 | 1.04 |
| Dokumental® ER 3151 | dark brown | 2.5 | 30.0 | 2.1 | 1.04 |
| Dokumental® ER 3152 | red brown | 2.0 | 29.5 | 2.3 | 1.03 |
| Dokumental® ER 3153 | brown | 2.8 | 29.3 | 2.1 | 1.04 |
| Dokumental® ER 3160.1 | yellow | 2.2 | 29.0 | 2.0 | n.d. |
| Dokumental® ER 3161 | orange | 2.4 | 29.0 | 2.1 | 1.04 |
| Dokumental® ER 3162 | red orange | 2.6 | 28.1 | 2.1 | 1.04 |
| Dokumental® ER 3170 | pink | 2.7 | 29.4 | 3.0 | 1.04 |
| Dokumental® ER 3180 | turquoise | 2.3 | 29.7 | 3.0 | 1.03 |
| Dokumental® ER 3182 | grey | 2.3 | 28.9 | 3.5 | 1.04 |

Erasable Fiber Pen Inks

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. Cross-contamination of the inks may lead to a colour mismatch or will even lead to a defective marker or shorter shelf life.

Storage, Handling & Transportation

Depending on the chemical characteristics of the used paper slight colour change can occur after some days.

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

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