

# 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.

#### Certificates / Approvals / Regulations

ASTM D-4236: All inks are ASTM D-4236 approved. The finished markers need separate ASTM D-4236 approval  
 ISO 9001

#### Suitable Surfaces

For all kind of papers

#### 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® ER 3100	blue <sup>1</sup>	2.4	29.8	4.9	1.04
Dokumental® ER 3110	black	2.8	30.5	2.3	1.04
Dokumental® ER 3112	black	2.6	30.0	2.4	1.04
Dokumental® ER 3120	dark red	2.6	30.0	2.4	1.04
Dokumental® ER 3121	red <sup>1</sup>	2.0	29.2	2.4	1.04
Dokumental® ER 3122	carmine <sup>1</sup>	2.6	30.0	2.1	1.04
Dokumental® ER 3130	green	2.0	30.0	2.4	1.04
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 3140	violet <sup>1</sup>	2.6	29.6	3.2	1.04
Dokumental® ER 3150	brown <sup>1</sup>	2.2	29.7	2.2	1.04
Dokumental® ER 3151	dark brown	2.5	30.0	2.1	1.04
Dokumental® ER 3152	red brown <sup>1</sup>	2.0	29.5	2.3	1.04
Dokumental® ER 3153	brown <sup>1</sup>	2.8	29.3	2.1	1.04
Dokumental® ER 3160	yellow <sup>1</sup>	2.5	29.0	2.0	1.04
Dokumental® ER 3161	orange <sup>1</sup>	2.4	29.0	2.1	1.04
Dokumental® ER 3162	red orange <sup>1</sup>	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	1.04
Dokumental® ER 3182	grey <sup>1</sup>	2.3	28.9	3.5	1.04

<sup>1</sup>ASTM D-4236 approved.

# Technical Data Sheet

## Dokumental® ER 31xx Magic Inks

### Erasable Fiber Pen Inks

**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

**Storage, Handling & Transportation**

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

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**

DOKUMENTAL GmbH & Co KG Schreibfarben

Wöllnerstraße 26

D-67065 Ludwigshafen

Phone: +49(0)621/5402-321

Fax: +49(0)621/5402-391

Mail: [info@dokumental.de](mailto:info@dokumental.de)

[www.dokumental.de](http://www.dokumental.de)