

# Ultra Low Viscosity Ball Pen Inks In Special Colours

### **General Information**

The DOCUFLUIDAL® EF 3xx inks combine the smooth, gel-like writing feeling of our DOCUFLUIDAL® EF 1xx with a variety of fancy colours. Without any compromises on other writing features the Docufluidal® EF 3xx series inks generate an intense, constant and almost "sliding" writing performance if used in combination with specially adjusted tips. Suitable Surfaces All kind of papers

**Applicable Standards & Regulations on Request** 

### **Physical Data**

Туре	Colour	Lightfastness (ISO 12757)	TF	Viscosity at 20°C mPa s ± 200	Surface tension mN/m	pH-Value
Docufluidal <sup>®</sup> EF 300.1	night blue	Part II	no	2,100	> 35	5.5 - 7.0
Docufluidal <sup>®</sup> EF 301	light blue	Part II	no	2,100	> 35	4.0 - 6.0
Docufluidal <sup>®</sup> EF 320	burgundy	Part I	no	2,100	> 35	5.3 - 6.3
Docufluidal <sup>®</sup> EF 330	yellow green	Part I	no	2,100	> 35	5.5 - 7.5
Docufluidal <sup>®</sup> EF 340	pink	Part I	no	2,100	> 35	4.3 - 6.3
Docufluidal <sup>®</sup> EF 341	lilac	Part I	no	2,100	> 35	4.3 - 6.3
Docufluidal <sup>®</sup> EF 342	red violet	Part I	no	2,100	> 35	4.3 - 6.3
Docufluidal <sup>®</sup> EF 350	red brown	Part II	no	2,100	> 35	5.5 - 7.5
Docufluidal <sup>®</sup> EF 360	orange	Part I	no	2,100	> 35	5.5 - 7.5
Docufluidal <sup>®</sup> EF 361	gold	Part I	no	2,100	> 35	5.5 - 7.0
Docufluidal <sup>®</sup> EF 380	turquoise	Part II	no	2,100	> 35	4.3 - 6.3

ISO 12757: Ball point pens and refills - Part I: General use, Part II: Documentary use, TF: Transparent Flux (clear drain in suitable refills)

# **Technical Advice**

Suitable Components:

All ball pen inks are suitable for plastic and metal refills. Important: The combination of Docufluidal<sup>®</sup> EF 3xx with not suitable tips will lead to undesireable results. So called OGB tips are essential to obtain the optimum writing performance.

For capillary refills, the use of ink follower Dokumental<sup>®</sup> IF 4312 colourless will increase the shelf life and will improve clear drain property. For jumbo refills, the use of ink follower Dokumental<sup>®</sup> IF 4310 white or IF 4311 white is mandatory in order to prevent back-leakage. For further information about our ink followers see the Dokumental<sup>®</sup> IF 43xx technical data sheet

It is mandatory to approve the compatibility of the ink and the components as well as the performance of the writing system.

#### Storage, Handling & Transportation

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 refill or shorter shelf life. Store our product frost protected and avoid direct sunlight. The recommended storage temperature is between 10°C and 30°C. Storage temperatures of above 30°C for several days bear the risk of a reduced shelf life of the ink.

After usage the drums have to be closed again tightly. Horizontal storage of the refills is recommended in order to get the maximum shelf life.

The shelf life of the inks in original sealed containers is 2 years.

## Packaging

20kg plastic canister 200kg plastic drum 1,000kg IBC

#### Produced by

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