

Technical Data Sheet

Docufluidal® EF 1xx Ball Pen Inks

Ultra Low Viscosity Ball Pen Inks

General Information

The DOCUFLUIDAL® EF 1xx inks show a minimized leaking and gooping potential especially for tips with high ink lay down despite of the low viscosity of these inks.

Without any compromises on other writing features the Docufluidal® EF 1xx series inks generate an intense, constant and almost „sliding“ writing performance if used in combination with specially adjusted tips.

Physical Data

Type	Colour	Lightfastness (ISO 12757)	TF	Viscosity at 20°C mPa s ± 200	Surface tension mN/m	pH-Value
Docufluidal® EF 100	violet blue	Part I	yes	2,100	> 35	4.0 - 6.0
Docufluidal® EF 101	dark blue	Part I	yes	2,100	> 35	4.0 - 6.0
Docufluidal® EF 102	violet blue	Part II	no	2,100	> 35	4.3 - 6.3
Docufluidal® EF 110	black	Part II	no	2,100	> 35	5.5 - 7.5
Docufluidal® EF 120	red	Part I	yes	2,100	> 35	7.5 - 8.5
Docufluidal® EF 121	red	Part I	no	2,100	> 35	4.3 - 6.3
Docufluidal® EF 122	ruby red	Part I	yes	2,100	> 35	4.0 - 6.0
Docufluidal® EF 130	green	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 when used in combination with Dokumental® IF 4312 ink follower)

Technical Advice

Suitable Components:

All ball pen inks are suitable for plastic and metal refills.

Important: The combination of Docufluidal® EF 1xx with not suitable tips will lead to undesirable results. So called OGB tips are essential to obtain the optimum writing performance.

For capillary refills, the use of ink follower Dokumental® IF 4312 colourless will increase the shelf life and will improve clear drain property. For jumbo refills, the use of ink follower Dokumental® 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® 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.

Suitable Surfaces

All kind of papers

Applicable Standards & Regulations on Request

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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