

# Technical Data Sheet

## Docufluidal® BP 3xx Ball Pen Inks

### Low Viscosity Ball Pen Inks In Special Colours

#### General Information

The ball pen inks of Docufluidal® BP 3xx series combine the smoother writing characteristics of the Docufluidal series with a variety of fancy side colours. All Docufluidal® BP inks are anti-gooping and anti-leaking adjusted. In comparison to standard ink types the following properties are clearly improved:

- smoother writing behaviour
- better starting characteristic
- higher ink lay down
- higher writing intensity

#### Physical Data

Type	Colour	Lightfastness (ISO 12757)	TF	Viscosity at 20°C mPa s ± 500	Surface tension mN/m	pH-Value
Docufluidal® BP 300.1	night blue	Part II	no	8,500	> 36	5.5 - 7.0
Docufluidal® BP 301	light blue	Part II	no	8,500	> 36	4.0 - 6.0
Docufluidal® BP 320	burgundy	Part I	no	8,500	> 36	5.3 - 6.3
Docufluidal® BP 330	yellow green	Part I	no	8,500	> 36	5.5 - 7.5
Docufluidal® BP 341	lilac	Part I	no	8,500	> 35	4.3 - 6.3
Docufluidal® BP 342	red violet	Part I	no	8,500	> 35	4.3 - 6.3
Docufluidal® BP 350	red brown	Part II	no	8,500	> 36	5.5 - 7.5
Docufluidal® BP 360	orange	Part I	no	8,500	> 36	5.5 - 7.0
Docufluidal® BP 361	gold	Part I	no	8,500	> 35	5.5 - 7.0
Docufluidal® BP 380	turquoise	Part II	no	8,500	> 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.

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.

Store our product frost protected and avoid direct sunlight. The recommended storage temperature is between 10°C and 30°C.

#### Suitable Surfaces

All kind of papers

#### Applicable Standards & Regulations on Request

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 4 years.

#### Packaging

20kg plastic canister

200kg plastic drum

1,000kg IBC

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