

Ball Pen Inks With Well-Balanced Properties

General Information

The Dokumental® ball pen ink series consists of some of the world's best known ball pen inks, that have been sold for many decades and are still used in billions of pens today.

The success is based on well-balanced characteristics and reliability, which have become the standard for all other Dokumental® products.

Suitable Surfaces

All kind of papers

Applicable Standards & Regulations on Request

Physical Data

Type	Colour	Lightfastness (ISO 12757)	TF	Viscosity at 20°C mPa s ± 1,000	Surface tension mN/m	pH-Value
Dokumental® 0224 PG3	black	Part II	no	16,000	> 35	4.3 - 6.3
Dokumental® 0232 PG3	black	Part II	no	16,000	> 36	5.5 - 7.5
Dokumental® 1527 PG3	blue	Part II	no	16,000	> 36	5.5 - 7
Dokumental® 2190 PG3	blue	Part II	no	16,000	> 36	5.5 - 7
Dokumental® 303/400 B	blue	Part II	no	18,500	> 35	4.3 - 6.3
Dokumental® 303/404 NB	black	Part II	yes	18,500	> 35	4.7 - 6.7
Dokumental® 303/406 B	red	Part I	no	18,500	> 34	8.5 - 10.5
Dokumental® 303/408 NB	green	Part II	no	18,500	> 33	4.3 - 6.3
Dokumental® 600 B / 600 B-S	violet blue	Part I	yes	18,500	> 35	4 - 6
Dokumental® 603 B	red	Part I	no	18,500	> 34	8.8 - 10.8
Dokumental® 604 NB	green	Part II	no	18,500	> 34	4.3 - 6.3
Dokumental® 606 B-N	black	Part II	yes	18,500	> 34	4.3 - 6.3
DOCU® red	red	Part I	yes	21,000	> 36	7.5 - 8.5
Dokumental® TF 0201 G3	black	Part II	yes	16,000	> 36	4.5 - 6.5
Dokumental® TF 0238 G3	black	Part II	yes	16,000	> 36	5.5 - 7
Dokumental® TF 093 G3N	red	Part I	yes	21,000	> 36	7.5 - 8.5
Dokumental® TF 1104 G	blue	Part II	yes	18,500	> 35	4.3 - 6.3
Dokumental® TF 2162G3N	blue	Part II	yes	16,000	> 36	5.3 - 6.3
Dokumental® TF 2204 G3N	violet blue	Part I	yes	18,500	> 36	5.5 - 7.5
Dokumental® TF 802 G3	green	Part II	yes	16,000	> 36	4.8 - 6.8

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

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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. 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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