

# Technical Data Sheet

## Dokumental® SP 92xx Fineliner Inks

### Water-Based, Pigmented Fineliner Inks

#### General Information

The inks of Dokumental® SP 92xx series are pigmented and feature excellent resistance against light, water, and even mechanical erasing.

#### Suitable Surfaces

All kind of papers

#### Applicable Standards & Regulations on Request

#### Physical Data

Type	Colour	ISO 14145 conformance		Viscosity at 20°C mPa s ± 0.5	Surface tension mN/m ± 2.0	pH-Value ±1.0
		Part 1	Part 2			
Dokumental® SP 9200	blue	yes	yes	3.1	45.0	8.5
Dokumental® SP 9210	black	yes	yes	4.2	39.0	9.0
Dokumental® SP 9220	red	yes	yes	3.8	41.0	8.5
Dokumental® SP 9230	green	yes	yes	3.1	46.0	8.5

ISO 14145: Roller ball pens and refills -- Part 1: General use, Part 2: Documentary use

#### Suitable Components

Nibs: extruded plastic nibs with adapters made out of plastic, nickel silver, brass nickel plated, stainless steel

Barrels, Caps and Plugs: polypropylene

Reservoir: polyester

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

The pens should be stored horizontally in order to avoid problems regarding ink flow and intensity.

Slight sedimentation of the pigments might occur. Therefore the inks must be decanted without shaking. The sediment cannot be used.

Before use the inks must be allowed to adapt to normal room temperature for at least one day. After this time they have to be stirred well.

The filling station has to be maintained and cleaned carefully.

The inks are sensitive to any kind of contamination. Contamination of the inks may cause colour mismatch or will even lead to a defective refill.

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.

#### Packaging

standard packaging: 20kg plastic canister (further packaging units on request).

#### Produced by

DOKUMENTAL GmbH & Co KG

Wöllnerstraße 26

D-67065 Ludwigshafen

Phone: +49(0)621/37702-321

Fax: +49(0)621/37702-391

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

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