

Technical Data Sheet

Dokumental® SP 38xx Fineliner Inks

Fineliner Inks with extended cap-off properties

General Information

The inks of Dokumental® SP 38xx series have extended cap-off properties (at least two weeks at 20° C under ISO 554 (23°/50%) conditions). They are CE (toys) certified to make them especially suited for children.

Suitable Surfaces

All kind of papers

Certificates / Approvals / Regulations

CE (Toys) certified (The inks follow the requirements of the European Toy Directive (88/378/EWG/A II))

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

ISO 14145-2: Roller ball pens and refills - Part 2:
Documentary use (DOC)

ASTM D-4236: ¹ the marked inks are ASTM D-4236 approved. The finished pens need separate ASTM D-4236 approval

ISO 9001

Physical Data

Type	Colour	ISO 14145		Viscosity at 20°C mPa s ± 0.5	Surface tension mN/m ± 2.0	Density at 20°C g/cm ³ ± 0.01	pH-Value ±1.0
		Part 1	Part 2				
Dokumental® SP 3800 B	blue ¹	yes	no	2.5	40.0	1.04	7.2
Dokumental® SP 3810 B	black ¹	yes	yes	3.9	40.0	1.04	8.4
Dokumental® SP 3811 B	black ¹	yes	yes	4.4	40.0	1.04	7.1
Dokumental® SP 3820 B	red ¹	yes	no	3.0	40.0	1.04	7.0
Dokumental® SP 3830 B	green ¹	yes	no	2.8	40.0	1.04	5.0

¹ASTM D-4236 approved.

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 only

Storage, Handling & Transportation

Store frost protected. Optimal storage temperature is between 0° and 30°C. Storage temperatures above 30°C can result in reduced shelf life of the bulk inks.

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 short term temperature stress during transportation should not exceed 40°C for a maximum of several days.

Packaging

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

Produced by

DOKUMENTAL GmbH & Co KG Schreibfarben

Wöllnerstraße 26

D-67065 Ludwigshafen

Phone: +49(0)621/5402-321

Fax: +49(0)621/5402-391

Mail: info@dokumental.de

www.dokumental.de