

Fineliner Inks for all kind of components

General Information

The inks of Dokumental® SP 35xx series show good flowing properties in all kind of components.

Suitable Surfaces

All kind of papers

Certificates / Approvals / Regulations

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	Concentrate Mixing Ratio ³	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 3500	blue ^{2,1}	1 : 3	yes	no	2.3	30.0	1.03	4.5
Dokumental® SP 3501	blue	1 : 2	yes	yes	2.9	34.0	1.05	7.1
Dokumental® SP 3502	blue ^{2,1}	1 : 3	yes	no	2.3	30.0	1.04	7.5
Dokumental® SP 3504 B	blue ¹	-	yes	no	1.5	41.0	1.03	1.6
Dokumental® SP 3505 A	royal blue	-	yes	no	1.7	51.0	1.03	7.6
Dokumental® SP 3510	black ¹	1 : 1	yes	yes	2.4	30.0	1.06	8.5
Dokumental® SP 3511	black	1 : 2	yes	yes	3.5	33.0	1.07	10.0
Dokumental® SP 3512	black ¹	-	yes	yes	2.7	31.0	1.07	7.5
Dokumental® SP 3513	black ²	1 : 2	yes	no	3.0	30.0	1.07	8.0
Dokumental® SP 3520	red ¹	1 : 2	yes	no	2.4	33.0	1.06	8.5
Dokumental® SP 3521	red	1 : 3	yes	no	2.3	31.0	1.05	9.5
Dokumental® SP 3522	red	1 : 2	yes	no	2.8	32.0	1.05	8.5 ± 1.5
Dokumental® SP 3530	green ¹	1 : 2	yes	no	2.8	30.0	1.05	7.0
Dokumental® SP 3531	green ¹	-	yes	no	3.0	30.0	1.06	7.8

¹ASTM D-4236 approved. ² only suitable for plastic or stainless steel adapters. ³ mixing ratio of ink with demineralized water, n.d.: not determined

Suitable Components

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

With ² marked inks are only suitable for plastic or stainless steel adapters.

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.

Special Inks

SP 3504 B: This ink can be removed with an eraser liquid

SP 3505 A: This ink is not erasable. Therefore it allows a correction of erased areas of royal blue fountain pen inks.

Packaging

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

Produced by

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