



Product Information

SLF

**SUPER LIGHT FAST
SUBLIMATION INK**

INKS FOR INK JET PRINTING USING PIEZO DROP ON DEMAND TECHNOLOGY

High light fastness dyes for printing on polyester

INKS

The SLF ink series is suitable for most piezo printers using water-based inks (Epson 9000, Mimaki, Mutoh, Roland).

The following inks are available:

SLF Yellow
SLF Magenta
SLF Cyan
SLF Black
Cleaning Fluid 800

INK JET PRINTING

The life span of piezo heads is considerably long and should conform to the manufacturer's specification even if inks based on disperse dyes are used.

Our inks based on disperse dyes have been tested on the most frequently used printers, but the suitability of the inks for individual machines and models has to be checked by the user. We are at our customers' disposal for further information.

If the inks dry in the nozzles, the normal cleaning procedure built into the printer should be applied.

The inks can be printed either directly on to the textile or indirectly via an intermediate substrate.

When the direct printing method is used, the dyes must be fixed by steam or by drying at 220°C (430°F) for 40 seconds. In order to reach optimum fastnesses the material must be washed after the fixation process.

With the indirect method, it has to be taken into account that the light fastness and rubbing fastness of the printed paper or other intermediate substrate are not very good. The printed substrate should therefore be handled with care and transferred as soon as possible after printing. To obtain a good color transfer and fixing, the printed substrate has to be transferred at 220°C (430°F) for 40 seconds.

FASTNESSES

See table attached. The fastnesses have been evaluated on a 105 g/m² 100% PES material. Transfer conditions were 220°C (430°F) for 40 seconds.

To achieve the fastnesses shown on the table, it is recommended with direct printing that the excess chemicals be eliminated by washing.

FASTNESSES

Product	Light	Water (severe)	Washing (60°C)	Persp. (acid)	Persp. (alkali)	Rubbing (dry)	Rubbing (wet)	Dry clean.
	ISO 105 /B02 100% / 10%	ISO 105 /E01 ch./st.	ISO 105 /C03 ch./st.	ISO 105 /E04 ch./st.	ISO 105 /E04 ch./st.	ISO 105 /X12	ISO 105 /X12	ISO 105 /D01 ch./st.
SLF Yellow	7 / 6-7	5 / 5	5 / 5	5 / 5	5 / 5	4-5	5	4 / 5
SLF Magenta	7 / 6-7	5 / 5	5 / 5	5 / 5	5 / 5	4	4	4-5 / 5
SLF Cyan	7 / 7	5 / 5	5 / 5	5 / 5	5 / 5	4	4-5	4-5 / 5
SLF Black	7 / 6-7	4 / 5	5 / 5	5 / 5	5 / 5	4-5	4-5	5 / 5

Light exposure equivalents for blue wool lightfastness references L2 to L9 ¹⁾ (informative)

Blue wool reference	Xenon Only		AATCC Fading Units
	420 nm KJ/m ²	300 to 400nm KJ/m ²	
L2	21	864	5
L3	43	1728	10
L4	85 ²⁾	3456	20
L5	170	6912	40
L6	340 ²⁾	13824	80
L7	680	27648	160
L8	1360	55296	320
L9	2720	110592	640

- 1) For colour change step 4 on the grey scale for colour change
- 2) Verified by experiment; all other values are calculated

AATCC Fading Units (AFU) added to chart as comparative information.

SHELF LIFE

The shelf life of the inks at room temperature is superior to six months.

To the best of our knowledge the information contained herein is true and accurate but all recommendations or suggestions are made without guarantee.