

# ElvaJet<sup>®</sup> Swift

Technical data sheet

## Overview

ElvaJet Swift is a series of water-based inks formulated with low energy disperse dyes which can be fixed onto polyester substrates via a transfer sublimation process.

The ElvaJet Swift series is suitable for most printers using Epson DX piezo printheads (e.g. Systems from Mimaki Mutoh, Roland)

ElvaJet Swift uses a specially formulated chemistry to allow high color intensity and maximum transfer rate from coated and uncoated papers. As such users can print up to 15% less ink, significantly reducing the stress on the transfer paper, resulting in less cockling and needing less drying power. This range offers not only the highest performance in term of printability but also the unique possibility of an easy and fast inks installation.

## Ink range

<b>Name</b>	<b>Code</b>
ElvaJet Swift Yellow	618CH0
ElvaJet Swift Magenta	638CH1
ElvaJet Swift Cyan	648CH0
ElvaJet Swift Ultra Black	678CH0

Standard pack size: 1 kg

## Compatible Flush

<b>Name</b>	<b>Code</b>
Sensient Universal Flush WB	698100
Sensient Conversion Flush WB	698200
Sensient Parking Flush	698300

## How to use

### ▪ Printing

The ElvaJet Swift series has been tested on the most frequently used printers, the suitability of the inks for individual machines and models needs however to be validated by the user.

If the inks dry in the nozzles, the normal cleaning procedure built into the printer should be applied. It is recommended to use our specific cleaning solution Sensient Universal Flush WB first followed by Sensient Conversion Flush WB should missing nozzles still be seen.

### ▪ Application

Once the transfer media is printed, it should be taken into account that the process is not designed to achieve an accepted light fastness and rubbing fastness of the printed paper or other intermediate substrate. The printed substrate should therefore be handled with care and the ink transferred to the fabric as soon as possible after printing

### ▪ Operation

- **Before ink Installation:** Unless ElvaJet Swift is the first ink installed into the system, it is recommended to clean the ink line thoroughly using 698100 Universal Flush. If the printhead and ink supply system are filled with non-Sensient series of inks prior to the installation, it is recommended to ensure all ink contact parts, tubing and printhead are fully flushed with the available 698200 Conversion Flush. Conversion Flush should not be left in the printhead for longer than 60 minutes.
- **Ink Installation:** Fill the ink line with ElvaJet Swift inks continuously to remove the flush. ElvaJet Swift is unique in its ability to settle in a printer and be printable almost immediately.
- **Printing:** Load the required image and color profile relating to the chosen substrate. If a profile does not exist at this point Sensient or our partners will be glad to support this process. Print directly to the transfer media and dry
- **Fixation:** To obtain a good color transfer and fixing, the printed substrate should be transferred at 210°C (410°F) for 30s
- **Printhead capping:** When the printer is idle, it is recommended to always cap the printhead properly. It is suggested that the printhead is not left open without capping for more than 60 minutes.
- **Cleaning:** Always use 698100 Universal Flush to clean the nozzle plate and the wiper. It is recommended to use this flush on any part of the capping station that is in direct contact with the printhead.
- **Ink removal:** If you plan to remove the inks from the printer for an extended period of time (longer than 2 days), fill the ink lines with the 698300 Parking Flush.
- **Nozzle recovery:** If a nozzle is found missing during or after printing, it is recommended to flush the nozzle with the ink and gently wipe the nozzle plate with the cleaner. If ink has dried

in the nozzles, it is recommended to flush with the available 698200 Conversion Flush. Conversion Flush should not be left in the printhead for longer than 60 minutes

## Performance

### ■ Fastness

Substrate: 170 g/m<sup>2</sup>, 100 % Polyester

Printing resolution: 720 dpi

Transfer conditions: 210°C (410°F) for 30 seconds

The light fastness has been measured at 100% and 10% coverage. All other fastness properties have been measured at 100% coverage. In certain cases, where a chemical pre-treatment has been applied to the fabric or it has been saturated with color, the substrate may perform better in fastness testing after washing. Optimized ink limiting and color profiling will limit this requirement.

Product	Light	Water	Washing	Persp.	Persp.	Rubbing	Rubbing	Dry clean.
ElvaJet®		(severe)	(60°C)	(acid)	(alkali)	(dry)	(wet)	
	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.
Swift Yellow	6-7 / 5-6	4-5 / 4-5	4-5 / 4-5	4-5 / 4-5	4-5 / 4-5	4	4-5	4 / 5
Swift Magenta	6 / 6	4-5 / 4-5	4-5 / 4-5	4-5 / 4-5	4-5 / 4-5	4	4-5	4 / 5
Swift Cyan	5 / 5	4 / 4-5	4 / 4-5	4 / 4-5	4 / 4-5	4	4-5	4 / 5
Swift Ultra Black	6 / 4-5	5 / 5	5 / 5	5 / 5	5 / 5	4-5	4-5	5 / 4-5

ch : change; , st. : staining

### ■ Shelf life

Inks should be stored in a controlled environment at a temperature between 10-30°C. If stored under these recommended conditions, the inks have a shelf life of 12 (twelve) months. If the ink exceeds the shelf life detailed on the bottle, please contact Sensient directly for advice on continued use.

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