

## **INKS FOR INK JET PRINTING USING PIEZO DROP ON DEMAND TECHNOLOGY**

### **Standard dyes for printing on polyester**

## **INKS**

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

The following inks are available:

- VWF Yellow
- VWF Orange
- VWF Magenta
- VWF Magenta light
- VWF Cyan
- VWF Cyan light
- VWF Blue
- VWF Black
- VWF Light Black
- VWF Light Light Black
- VWF Ultra Black
- Cleaning Solution 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 210°C (410°F) for 30 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 210°C (410°F) for 30 seconds

## FASTNESSES

The fastnesses have been evaluated on a 105 g/m<sup>2</sup> 100% PES material. Transfer conditions were 210°C (410°F) for 30 seconds.

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

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.
VWF 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
VWF ORANGE	5-6 / 5	4-5 / 4-5	4-5 / 4-5	4-5 / 4	4 / 4	4	4-5	4 / 5
VWF MAGENTA	6 / 6	4-5 / 4-5	4-5 / 4-5	4-5 / 4-5	4-5 / 4-5	4	4-5	4 / 5
VWF CYAN	5 / 5	4 / 4-5	4 / 4-5	4 / 4-5	4 / 4-5	4	4-5	4 / 5
VWF BLUE	6-7 / 5	4 / 4-5	4 / 4	4 / 4-5	4-5 / 4-5	4	4-5	4 / 5
VWF BLACK	6B / 5 B	4-5 / 4-5	4-5 / 4-5	4-5 / 4-5	4-5 / 4-5	4-5	4-5	4-5 / 5
VWF ULTRA BLACK	6R / 3-4R	5 / 5	5 / 5	5 / 5	5 / 5	4-5	4-5	5 / 4-5

## 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.