

DT8-PRO TECHNICAL DATA SHEET

WATER-BASED DISPERSE DYE INK

INX International Ink Co's DT8-PRO is a premium Waterbased Textile Disperse Dye Inkjet Ink set formulated for use in printers with Epson from DX4 to TFP print heads.

TRIANGLE® DT8-Pro is a water-based digital sublimation ink for **transfer printing** with the highest technical characteristics. The product is suitable for all printers equipped with Epson piezoelectric technology. The long-run test performed on different printers such as Roland, Mimaki, Mutoh and Epson has shown excellent properties of run ability with all Epson printing heads (DX4, DX5, DX7, TFP). Thanks to its outstanding performance, **DT8-Pro** is ideal also for the most demanding user in terms of productivity and colour yield.

- **Fast Drying**
- **Excellent Transfer Capability**
- **Brilliant and Vivid Colors Color Gamut**
- **Designed for Direct Printing on Various Polyester**
- **Suitable for Epson Printheads From DX4 to TFP**
- **Highest Dyes Concentration Vs Competitors**
- **Better Jetting reliability**
- **Short Drying Time**
- **Better Washing resistance**
- **For Coated and Uncoated Paper**

APPLICATION

DT8-Pro is recommendable for 100% polyester fabrics or in blends with different fibers (lycra, viscose, cotton, acrylic) with a minimum percentage of 70%. It can also be used on any substrate (alu, wood, ceramic, glass, etc.) usually unsuitable for the sublimation process, after doing a pretreatment with polyester-polyamide resins. **DT8-Pro** is suitable for sportswear, technical sport equipment (snowboard, ski, wakeboard, bike frame, etc), garments, flag and banners, ceramics, wood, gadgets and decorations.

MAIN FEATURES

DT8-Pro has brilliant and vivid colors that ensure a wide and deep color gamut. Due to its high dye concentration and its innovative formulation, Isonik **DT8-Pro** is the right choice for the particularly difficult prints on substrates, where extreme drying speed and high color yields are the minimum requirements for high quality printings. **DT8-Pro** grants also the best color release at standard transfer conditions (200/210°C-35/45 sec). The unique rheological properties of **DT8-Pro** ensure long-run productions avoiding the interruptions for cleaning procedures. **DT8-Pro** grants an excellent color yield on any kind of sublimation papers.



PACKAGING

6 x 1kg Bottle. Net quantity 6kg.
9 Colors



TYPICAL PHYSICAL PROPERTIES

COLOR	Light Fastness (EN ISO 105 B 02)	Washing Fastness (EN ISO 105 C 02)	Perspiration Fastness (EN ISO 105 E 04)	Sublimation Class
Cyan	5-6	4-5	4-5	C
Magenta	6-7	4-5	5	C
Yellow	6-7	4-5	4-5	B
Black PRO	5-6	4-5	5	B-C
Light Cyan	5-6	4-5	4-5	C
Turquoise	6-7	5	5	C
Blue	6	4-5	5	B-C
Light Magenta	6-7	4-5	5	C
Orange	5-6	4-5	5	B
Light Light Black	5-6	5	5	B-C
Light Black	6	4-5	5	B-C
Deep Black	5-6	4-5	5	B-C
Yellow FLUO	4	4-5	5	B
Pink FLUO	5	4-5	5	C

TEMPERATURE EXPOSURE & JETTING

Inks were optimized to jet in equipment operating at 25°C. Changes in ambient temperature and controlled temperature settings affect the viscosity of the ink and therefore the accuracy of drop formation and dot placement.

Prolonged exposure to temperatures above 55°C should be avoided as long term exposure to high temperatures can induce pigment agglomeration.

INK STORAGE AND SHELF LIFE

These inks should be stored between 20° - 25°C (68° - 77°F). When stored properly inks have a 12 month shelf life.

RECOMMENDED FLUSH

DT8 Cleaning 1564082-01KG - Water-based head wiping fluid that may be used to flush the ink train.

Warning: DT8-Pro has limited compatibility with solvents. Adding solvents for any extended period of time into the ink train may cause premature curing

POST PROCESS

The product is ready for use.

- Keep **DT8-Pro** at room temperature at least 24h before use.
- Shake gently before use.
- Set the operation conditions as follows:
 - temperature range: 20-25°C
 - relative humidity range: 40-60 RH %
- Transfer **DT8-Pro** by using a calender or a flat press at a temperature of 200-210°C for 35/45 sec.

Preliminary tests are recommended in order to set the best operative parameters (T°C/t sec) and to achieve the desired result.

IMPORTANT: Product performance could vary according to the hardware, software, paper and type of process used.

THERMO-FIXING CONDITIONS

Thermo-fixing can occur by means of a press or a calendar. The temperature and time varies depending on the chemical-physical characteristics of the substrate being printed or onto which the print is being transferred. For transfer printing, **DT8-Pro** works well with lightweight to heavyweight transfer paper. For an even brighter result we recommend washing the flag or banner prior to installation.

PRODUCT CODE

1564075-01KG	Cyan
1564076-01KG	Magenta
1564077-01KG	Yellow
1564079-01KG	Black Pro
1564078-01KG	Deep Black
1564080-01KG	Yellow Fluo
1564081-01KG	Pink Fluo
**Available on Request	Light Cyan
**Available on Request	Light Magenta
**Available on Request	Turquoise
**Available on Request	Blue
**Available on Request	Orange
**Available on Request	Light Black
**Available on Request	Light Light Black

PACKAGING AND SHIPMENT CONDITIONS

The product is heat-sensitive.

Extensive exposure at a temperature higher than 35°C may irreversibly damage its properties.

- Shipment instructions:
 - temperature range: 5-30°C
 - refrigerated container is suggested for long distance shipment.
- Storage instructions:
 - Avoid exposure to direct sun light.
 - Store **DT8-Pro** in a dry and well ventilated environment at a temperature range of 5-30°C.

*Conditions apply. This information has been carefully studied from experience gained in the laboratory and under commercial situations. It is subject to change without notice. All sales are subject to our standard terms and conditions of sale. Since applications vary tremendously, the user assumes the obligation to test this product in their specific situation to determine its suitability and assumes all risk and liability related to such use. INX Digital makes no warranty, express or implied, for the use of the product for any particular application. In no event shall INX Digital be liable for damages in excess of the original cost of the product nor shall INX Digital be liable for any special or consequential damages. **Coverage was calculated using actual figures obtained from a print shop. Coverage depends on the file being printed and printer settings.