

The TX650 Series Inks are water-based, dye-sublimation high-density ink formulated specifically for use on a range of Wide Format digital printers. Designed for printing onto paper before being heat transferred onto polyester based fabrics and coated rigid substrates, TX650 ink is ideal for an array of transfer applications from producing sportswear garments to outdoor signage.

## Primary Features & Substrates

### Features

- Bright, vibrant and clean colors
- Superior fastness properties
- Excellent release properties giving superb transfer definition and color
- Reliable printer performance
- Industry leading warranty
- High Density ink-set

### Substrates

- Polyester fabrics, Spandex™, and Lycra™
- Mixed synthetic fabrics with minimum polyester content 60%
- Pre-coated ceramics, metals and plastics

### Ink Handling

All personnel mixing and handling these products must wear gloves and eye protection. Clean up all spills immediately. If ink does come in contact with skin, wipe ink off with a clean, dry cloth (do not use solvent or flush solution). Wash the affected area with soap and water. Consult the Nazdar® [TX650 Series Material Safety Data Sheet](#) for further instructions and warnings.

### Ink Changeover

It is essential that the printer be flushed with TX650 flush solution prior to installation of the TX650 Series ink. Failure to perform the cleaning process may result in print-head blockages and inferior print quality.

### Ink Transfer

The time and temperature required to achieve the optimal level of transfer is dependent upon the substrate type and heat press equipment used. Typical settings are 356°F - 410°F (180°C - 210°C) for 30-60 seconds

### Clean Up

For clean-up of ink spills and equipment use LTAS650NCF TX650 Flush Solution. Avoid contact with skin. Wear approved safety glasses and

appropriate gloves when using Maintenance Solution. Consult MSDS for further safety precautions.

### Storage/Shelf Life

TX650 Series ink should be stored in a dry, cool place at a temperature of 41°F - 86°F (5°C - 30°C). TX650 has a shelf life of 12 months.

### Ink Performance

#### Fastness & Durability Statement

There are a multitude of variables related to both Dye-Sublimation printing/transferring process, and the outdoor environment that a print may be subject to that can adversely affect the outdoor fade characteristics of the printed material. Although Nazdar® TX Series of Dye Sublimation inks are formulated with high quality industry standard dyes which are very light fast in their raw state; the light fastness and durability of a printed product will be determined by the density of the print. Half tone or pastel colours for instance have very low light fast and weathering resistance. For this reason outdoor durability is not covered under the Nazdar application warranty and no guarantee is provided in regards to the inks performance or suitability for outdoor applications.

#### Environmental Operating Parameters

Temperature:

- 66 ° F – 80 ° F [19 ° C – 27 ° C]

Humidity:

- Optimum: 40% - 60% (non-condensing)
- Operational: 30% - 70% (non-condensing)

#### Nazdar Quality Statement

Nazdar® stands behind the quality of this product. Nazdar® cannot, however, guarantee the finished results because Nazdar® exercises no control over individual operating and production procedures. While technical information and advice on the use of this product is provided in good faith, the user

bears sole responsibility for selecting the appropriate product for their end use requirements. Users are also responsible for testing to determine that our product will perform as expected during the printed item’s entire life cycle from printing, post print processing, and shipment to end use. This product has been specially formulated for digital printing, and it has not been tested by any other method. Any liability associated with the use of this product is limited to the value of the product purchased from Nazdar®.

This ink, or the use of this ink, may be covered by one or more of the following patents: United States Patent Nos. RE38952; 5,487,614; 5,488,907; 5,601,023; 5,640,180; 5,642,141; 5,734,396; 6,425,331; 6,439,710; 6,450,098; 6,488,370; 6,618,066; European Patent Nos. 778,798; 1,132,439; Australian Patent No. 768,805; Brazilian Patent No. PI508651-0; Canadian Patent No. 2,198,750; Japanese Patent No. 3,727,343; Mexican Patent No. 231098; Other patents pending.

Based on information from our raw material suppliers, these products are formulated to contain less than 0.06% lead. If exact heavy metal content is required, independent lab analysis is recommended.

## Validated Equipment

Nazdar® TX650 Series Inks are designed for use in the following printer platforms:

- Roland
  - ProII – SJ, FJ, SC
  - Pro III – XC, XJ
  - RS Series
  - FP740
- Mimaki
  - JV22 – 130, 160
  - JV4 – 130, 160, 180
  - TX2
  - JV3
- Mutoh
  - RJ900
  - ValueJet1204, 1304, 1604

## Manufacturers Product Offering

All colors listed in the table below as well as the flush solution are available in 2 different 1 liter packaging options, and one 5 liter option. Packaging options are differentiated with a letter code that appears in the item number just before the color designation; represented by an “x” in the item numbers in the table below.

- **Standard 1 liter Packaging:** Items packed in this manner are suitable for use with any pour-in bulk ink system. They are designated with the letter “N” (i.e., LTAS650N**CY**).
- **Manoukian™ BFS (1 liter):** Items in this packaging unit are suitable for use in a Manoukian™ bulk feed system. They are designated with a letter “M”.
- **5 Liter Bag-in-box:** This packaging unit is designed for large scale operations with multiple printers. These are designated with a letter “B”.

Be sure to check with your Nazdar inks distributor for packaging availability.

### Inks

Item Number	Color
LTAS650x <b>CY</b>	Cyan
LTAS650x <b>MA</b>	Magenta
LTAS650x <b>YE</b>	Yellow
LTAS650x <b>KK</b>	Black
LTAS650x <b>KN</b>	Neutral Black
LTAS650x <b>LC</b>	Light Cyan
LTAS650x <b>LM</b>	Light Magenta

### Flush

Item Number	Color
LTAS650x <b>CF</b>	TX650 Flush Solution

Digital Sublimation

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