

# Technical Data Sheet

Version. 1.00



## HD - LLF (Dye Sublimation Ink)

### Description

AT Inks, HD-LLF Grade, is a dye-sublimation ink with the high density in the AT Ink portfolio. It is a water based inkjet ink designed for a wide range of wide format printers. The inks are designed to be printed on Mildly Coated or Uncoated transfer paper. The image printed on transfer paper is transferred onto polyester fabrics and onto rigid substrates under heat and pressure. AT Inks, HD-LLF Grade is ideal for wide range of applications like sportswear, garments, furnishings outdoor signage etc. The printed image can be transferred onto polyester, nylon and spandex materials.



### Benefits and Advantages

AT Inks, HD-LLF Grade are environmentally friendly with low/no odour, fast drying time, superior colour gamut, excellent substrate compatibility, light fastness, soap solution resistance, alcohol resistance and scratch resistance. In addition the inks are designed to give hassle-free printing reliability. The inks are virtually non VOC.

### Field of use

AT Inks, HD-LLF Grade is designed for use on printing machines using Epson\* technology printheads such as DX4, DX5, DX10, 5113, i3200 and separately on Kyocera\* KJ4B printheads. The product is a ready to use liquid for printing on coated paper followed by transfer on to various polyester fabrics for graphic arts or industrial printing applications.

### Substrates

With a receptive coating, images printed with AT Inks, HD-LLF Grade can be transferred on the following substrates to create vibrant images.

- Polyester (Flags, banners, fabric, furnishings)
- Spandex
- Polyamide
- Plastic
- Wood
- Ceramic
- Glass
- Metal

### Compatible Printheads

- Epson\* DX5, 5113 , i3200
- Kyocera\* KJ4B – (Separate ink)

### Features

- Non-VOC, water based inks
- APEO free and formaldehyde free inks
- Bright, Vibrant colors
- Excellent printing reliability
- High density ink-set
- Excellent transfer and sharp prints

### Available Colors

- Cyan
- Magenta
- Yellow
- Black
- Light Cyan
- Light Magenta
- Fluorescent Yellow
- Fluorescent Magenta
- Flush
- Maintenance Solution

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## Technical Specifications

Viscosity**	: 1-15 cP
Surface Tension	: 25-45 Dynes/cm
Flash Point	: >95°C

## Standard Product Packaging

- 1L Bottle
- 5L Bottle
- Bulk

## Shelf Life

12 months from the date of production, when stored according to the recommended storage conditions.

## Ink Change over and Printhead Maintenance

Before change over, the printhead can be flushed using AT Inks, Robuste™ Grade dye-sub “Flush Solution” for best results. Failure to clean the printhead before changeover with the above flush may result in nozzle blockages. For best reliability and trouble free performance AT Inks “Maintenance Solution” should be used in the foam pad in the printhead station. Contact us for ink change over procedure, if required.

## Storage Conditions

Product should be stored in original packaging in a cool/dry place between 10°C and 35°C (50-95°F) and relative humidity of 30 – 60% (non-condensating), away from direct sunlight and heat sources. Prevent freezing of this product.

## Shipping and Handling

All personnel handling these products must wear gloves and eye protection as per local laws. After use, wash hands with soap and water. Should ink come in contact with clothes, remove clothing to avoid prolonged skin exposure. Should ink come in contact with skin, wipe off with a clean, dry absorbent cloth and wash area with soap and water. Dispose containers and ink waste as per local and federal regulations. For additional safety data, please refer to SDS.

\* Trademark of respective companies.

\*\* Viscosity at room temperature.

**Disclaimer:** The information provided in Technical Data Sheet (TDS) is based on AT Inks' internal laboratory testing data. Rex-Tone industries Ltd, AT Inks, their distributors and assigns shall not be liable to any loss or damage, including such loss or damage to any third party, caused by any use of the Products which is inappropriate or not in accordance with instruction for the storage and use of the products in this TDS or in a replacing or supplementary TDS issued by AT Inks. In any event AT Inks' liability is limited to a maximum of the price of the Product(s) or the cost of replacing such Products only. AT Inks is not, in any event, liable to any other loss or damage, including consequential damages.

All technical instructions about our products and their use, if spoken, written or through test trials are to the best of our knowledge. However, it should not be considered as an assurance for certain properties of products or their suitability for each application. It will be solely your responsibility for the selection and testing of the ink for specific applications.