Technical Data Sheet

Nazdar LWU770

V1.0 EN

Nazdar 770 Series Inks are a general graphics inks designed for heated medium viscosity printheads. This series uses low odor components and can cure by both UV and LED.

Features

- Used in Kyocera KJ4A
- Chemistry uses lower odor components
- Curable by UV (Hg), D bulb (Fe) and LED
- Market acceptable idle time before purge/wipe
- Print speed up to 1.6 m/min

Substrates

- Reinforced vinyl banner, pressure sensitive vinyl, and window cling
- Polystyrene
- Flexible PVC
- Clear & white PET
- Foamboard
- Roll polycarbonate
- Flexible backlit media

Adhesion should always be tested as adhesion does depend upon curing conditions, age and manufacturer of substrate.

Particle Size

All batches of ink are formulated and tested to have an average particle size under 1 micron.

Surface Tension

Surface Tension is measured by a DuNouy Ring device at 25° C. The surface tension naturally varies within our min/max tolerances from color to color.

- Min: 21 mN/m
- Max: 23.5 mN/m

Curing Parameters

These guidelines are intended only as a starting point for determining cure parameters, which must be determined under actual production conditions.“Undercuring” the ink may result in poor adhesion, lower block resistance, and higher residual odor.

LWU770 series ink cures when exposed to conventional UV and/or LED curing unit(s).

Requirements for LED:

- 6 W/cm^2 or higher
- 395 nanometer wavelength

Requirements for Conventional UV:

- Mercury (Hg) bulb
- Minimum (per pass) 800 mW/cm^2

Requirements for Conventional UV:

- Mercury/iron doped bulb
- Minimum (per pass) 600 mW/cm^2

Note: many factors dictate cure i.e.; dot size, ink coverage, pass count, speed and color management.

Viscosity

Viscosity requirements meet the specification of medium viscosity printheads operating in a range of 6 – 8 cPs, measured at 45^{0}C.

Ink Handling

All personnel handling these products must wear gloves and eye protection. Clean up all spills immediately. If ink does come in contact with skin, wash the affected area with soap and water (do not use solvent or flush solution). Consult the Nazdar® LWU770 Safety Data Sheet for further instructions and warnings.

Clean Up

For clean-up of ink spills use the Nazdar 7001 UV Maintenance Fluid. Avoid contact with skin.

Environmental Operating Parameters

Temperature:

- 66 ˚ F – 80 ˚ F [19 ˚ C – 27 ˚ C]

Humidity:

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

Storage/Shelf Life

Store ink and flush solutions at 18˚ - 27˚ C (65˚ - 80˚ F). If stored at a different temperature, the ink

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should be allowed to reach room temperature before calibration or printing. The shelf life of this product is 12 months from the date of manufacture when stored under prescribed conditions.

Outdoor Durability

LWU770 colors are formulated to provide 2 years outdoor durability when mounted vertically in the Central U.S.A. Outdoor durability cannot be specified exactly. Slight color change and loss of gloss should be expected. Variables affecting a printed part's durability include:

- Ink film thickness and degree of curing
- Substrate type and age
- Mounting angle and directional orientation
- Geographical location
- Excessive abrasion
- Non-clear coated prints exhibit more color change and loss of gloss

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®.

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 770 Series Ink has been validated for use in the following printer platforms:

- Dilli Neo Sun FB 2513-04 DWX
- Dill Neo Sun HB 2504 DWX
- Handtop HT2500UV
- Yotta YD-H5000KJ
- Yotta TD-R3200KJ

If your machine is not listed and you would like to validate, please reach out to product management at InkAnswers@nazdar.com

Manufacturers Product Offering

All colors listed in the table below are available in 1-liter and 5-liter black containers.

Available Colors

Item Number	Color
LWU770CY	Cyan
LWU770MA	Magenta
LWU770YE	Yellow
LWU770KK	Black
LWU770CL	Light Cyan
LWU770ML	Light Magenta
LWU770WH	White
LWU770NC	Clear

Note: LWU770FF Flush must be used when cleaning an ink system.

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