

# LCU TECHNICAL DATA SHEET

## UV CURABLE PIGMENTED INKS

TRIANGLE's LCU ink is a UV curable, pigmented ink set formulated for use in Seiko, Dimatix, Ricoh and Konica Minolta Heads.

Triangle's LCU UV curable inks are optimized for high pigment density and wide color gamut. LCU is uniquely formulated to have excellent adhesion to acrylics and polycarbonate as well as a wide range of digital graphics media. These inks are intended for jetting with high consistency, repeatability and stability on systems based on Ricoh G4/G5, Dimatix Starfire series, Konica Minolta 1024i and older, Seiko 508GS and similar as well as on other printheads in class.

- Extended open time
- Smooth ink layer
- Low Odor
- No tackiness after curing
- Suitable for rigid and flexible substrates
- Good stretchability
- Suitable for LED or standard UV Lamps
- Backed by INX Digital's Worldwide Outdoor Durability and Ink Train Warranty for TRIANGLE® brand ink



### PACKAGING

6 x 1 liter bottle. Net quantity 20 liters.  
 4 x 5 liter bottle. Net quantity 20 liters.  
 2 x 5 liter bag in box. Net quantity 10 liters.  
 6 Colors



### TYPICAL PHYSICAL PROPERTIES

COLOR C, Y, K

Viscosity (45° C)	9.9 - 11.5	mPa-s
Surface Tension (25° C)	24.5 - 26.5	mN/m
Cure Dosage	110	mJ/cm <sup>2</sup>
Specific Gravity	1070 - 1090	Kg/m <sup>3</sup>

COLOR M, LC, LM

Viscosity (45° C)	9.9 - 11.5	mPa-s
Surface Tension (25° C)	33.0 - 35.0	mN/m
Cure Dosage	110	mJ/cm <sup>2</sup>
Specific Gravity	1070 - 1090	Kg/m <sup>3</sup>

### LIGHTFASTNESS

COLOR	RATING	COLOR	RATING
CYAN	7 - 8	LIGHT CYAN	7 - 8
MAGENTA	7	LIGHT MAGENTA	7
YELLOW	7 - 8		
BLACK	8		

## FLEXIBILITY & ADHESION

**LCU** inks are formulated to achieve optimum adhesion on commonly used flexible and rigid display graphics media as well as Acrylics and Polycarbonate. Specific media such as PE can be problematic so the customer should test these materials before conversation. Many times the use of BondAid adhesion promoters can fix adhesion issues.

## TEMPERATURE EXPOSURE & JETTING

No temperature adjustments required during conversion. Inks can be used in jetting equipment with temperatures up to 60°C. Prolonged exposure to temperatures above 55°C however, should be avoided as long-term exposure to high temperatures can induce premature polymerization.

## 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

**UV Wiping Fluid** - Maintenance head wiping fluid for external use only.

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

## PRODUCT CODE

1565920-05LT **CYAN**  
1565921-05LT **MAGENTA**  
1565932-05LT **YELLOW**  
1565933-05LT **BLACK**  
1565934-05LT **LIGHT CYAN**  
1565935-05LT **LIGHT MAGENTA**

1565920-01LT **CYAN**  
1565921-01LT **MAGENTA**  
1565932-01LT **YELLOW**  
1565933-01LT **BLACK**  
1565934-01LT **LIGHT CYAN**  
1565935-01LT **LIGHT MAGENTA**

1565920-05LTBB **CYAN**  
1565921-05LTBB **MAGENTA**  
1565932-05LTBB **YELLOW**  
1565933-05LTBB **BLACK**  
1565934-05LTBB **LIGHT CYAN**  
1565935-05LTBB **LIGHT MAGENTA**

\*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.