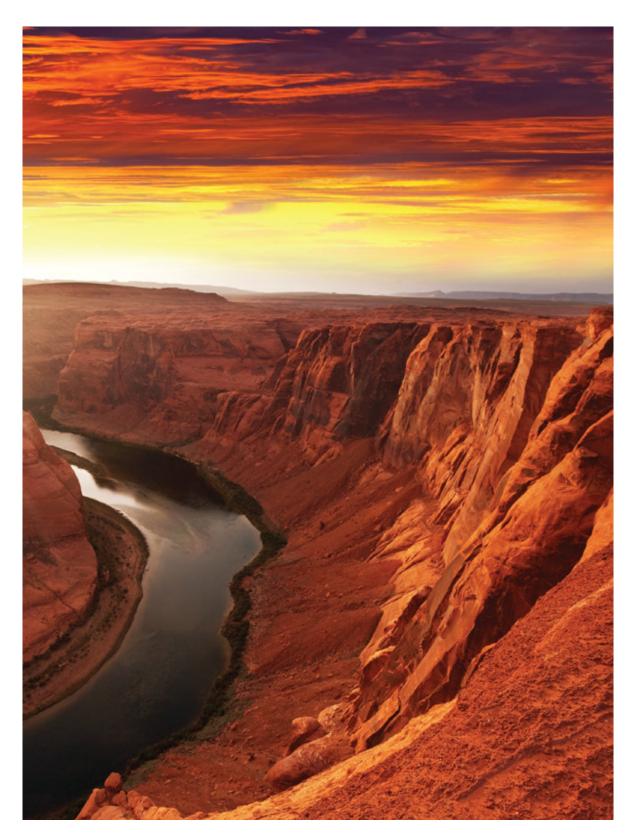
WE MAKE INKS



REACTIVE INK

Extremely high performance inks





FOR KYOCERA

PAPIJET TXRK 403

Based on our extensive knowledge of reactive dyestuffs, KISCO developed reactive inks to illustrate a large color space in digital textile printing for cellulose fibers. The PAPIJET TxRK series are reactive inks optimized for Kyocera heads and have been approved by a number of leading printer manufacturers. Our first generation ink, PAPIJET TxRK has been certified by Kyocera. The ink formulations for all 8 colors of the PAPIJET TxRK series are designed to present the best runnability. The PAPIJET TxRK series are ecologically-friendly, water-based, reactive inks with overall good fastness, outstanding fast dry properties, excellent stability and reproducibility.

Shades

PAPIJET Yellow TxRK 403 PAPIJET Orange TxRK 403 PAPIJET Magenta TxRK 403 PAPIJET Red TxRK 403 PAPIJET Cyan TxRK 403 PAPIJET Blue TxRK 403 PAPIJET Black TxRK 403

Fastness Properties

| | Light | Washing | Water | Perspi | iration | Rub | bing |
|------------------|-------------|-------------|-------------|-------------|-------------|--------|--------|
| | 100 105 000 | 100 105 006 | 100 105 006 | ISO 10 | 05-E04 | ISO 10 | 05-X12 |
| | ISO 105-B02 | ISO 105-C06 | ISO 105-C06 | Acid | Alkali | Dry | Wet |
| | Ch | Ch/CO/WO | Ch/CO/WO | Ch/CO/WO | Ch/CO/WO | Ch | Ch |
| Yellow TxRK 403 | Over 4 | 4-5/4-5/4-5 | 4-5/4-5/4-5 | 4-5/4-5/4-5 | 4-5/4-5/4-5 | 4-5 | 3-4 |
| Orange TxRK 403 | 4 | 4-5/4-5/4-5 | 4-5/4-5/4-5 | 4-5/4/4-5 | 4-5/3-4/4-5 | 4-5 | 3 |
| Magenta TxRK 403 | 4 | 4-5/4-5/4-5 | 4-5/4-5/4-5 | 4-5/4/4-5 | 4-5/4/4-5 | 4-5 | 2-3 |
| Red TxRK 403 | Over 4 | 4-5/4-5/4-5 | 4-5/4-5/4-5 | 4-5/4/4-5 | 4-5/4/4-5 | 4-5 | 2-3 |
| Cyan TxRK 403 | Over 4 | 4-5/4-5/4-5 | 4-5/3-4/3-4 | 4-5/3/3-4 | 4-5/2-3/3-4 | 4-5 | 2-3 |
| Blue TxRK 403 | Over 4 | 4-5/4-5/4-5 | 4-5/4-5/4-5 | 4-5/4-5/4 | 4-5/4-5/4-5 | 4-5 | 3 |
| Black TxRK | Over 4 | 4-5/4-5/4-5 | 4-5/4-5/4-5 | 4-5/4/4 | 4-5/3-4/4-5 | 4-5 | 2-3 |

The following data represents results of internal test performed with the specified ink and fabric.

Result in actual and use may vary depending on the particular conditions of use.

Application

Cellulose and its blends for apparel, home furnishing and silk









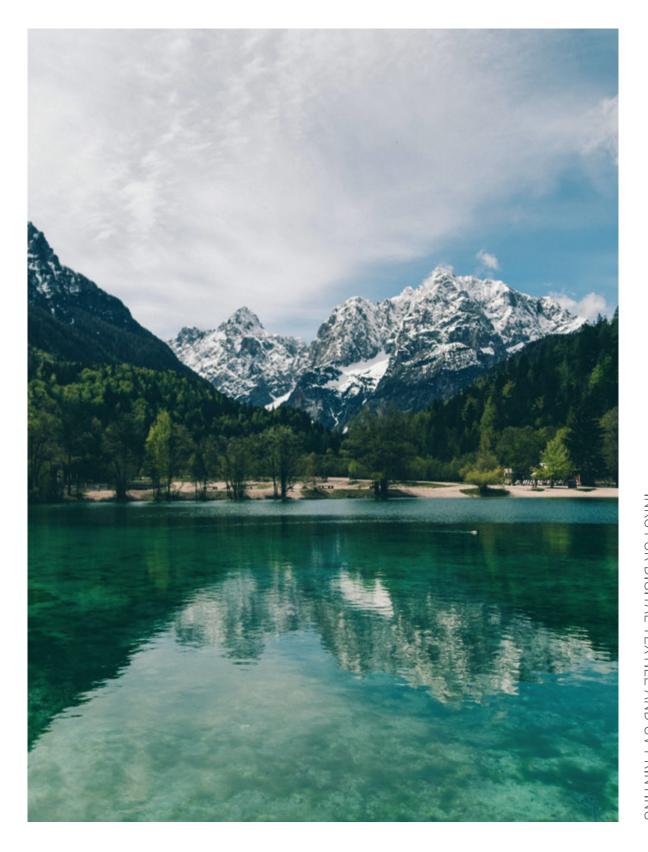






Pre-Treatment

Improves adhesion for Pigment Inks





PAPIJET TXPT-CLK 20 TXPT-CDB 50

KISCO develops and produces pre-treatment solutions for pigment inks. These enhance color strength and maintain the fastness on fabrics. Our PAPIJET TxPT-CLK20 is optimized for printing on white, cotton fabrics. It can increase the color strength of PAPIJET TxP/TxPK 201 inks by up to 70%. Our PAPIJET TxPT-CDB50 is optimized for DTG printing. It provides good protection and improves print quality.

✓ For DTP : TxPT-CLK 20

Dilution Ratio: 20%

| Dilution | Strength(%) | | | | |
|-----------|-------------|---------|--------|-------|--|
| Ratio (%) | Cyan | Magenta | Yellow | Black | |
| 20% | 148 | 169 | 191 | 166 | |

^{*} STD: TxP 201 Untreated Fabric

Padding Condition: pick-up 60~70% / Dry Condition: 105°C, 1~2min

Fastness Properties

| | Untrea | ted Fabric | KISCO(CLK 20) P | retreated Fabric |
|---------|--------|------------|-----------------|------------------|
| | Dry | Wet | Dry | Wet |
| Cyan | 4 | 4-5 | 4-5 | 4 |
| Magenta | 4-5 | 4-5 | 4-5 | 4 |
| Yellow | 4-5 | 4 | 4-5 | 4 |
| Black | 4-5 | 3-4 | 4-5 | 3 |

For DTG: TxPT-CDB 50



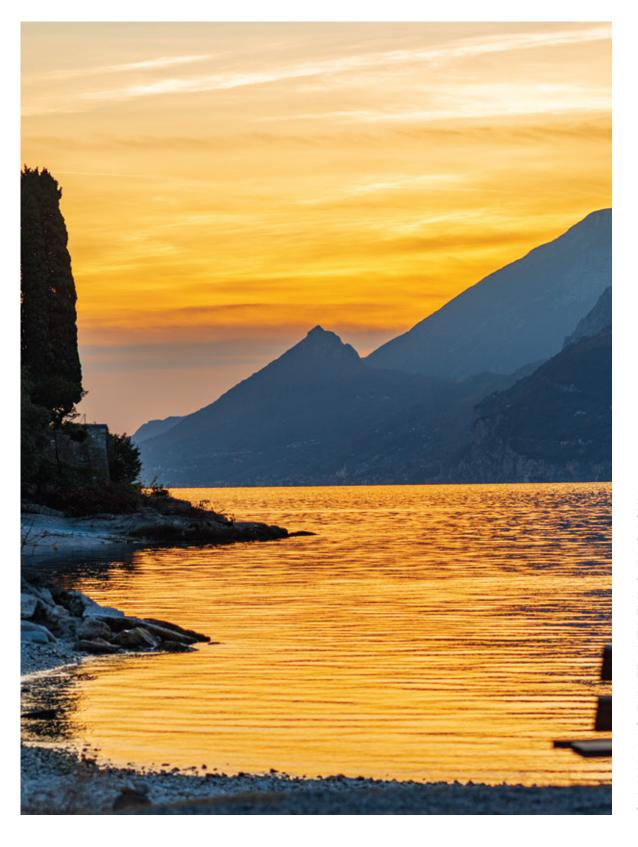




PIGMENT INK

Direct to Film inks

WATER BASED I N K



INKS FOR DIGITAL TEXTILE AND UV PRINTING

PAPIJET TXPF FOR EPSON

KISCO develops and produces high-color, high-fastness, water-based pigment inks that are based on advanced pigment dispersion technologies. Our Direct-To-Film (DTF) are inks optimized for Epson heads. They deliver stable print quality, bright colors and excellent fastness. DTF inks are eco-friendly products that do not contain hazardous substances such as halogenated organics. Their safety is certified under RoHS 2.0.

DTF inks are printed onto films which can then be applied to substrates using a heat transfer process. Applications include a wide variety of textile fabrics and clothing. DTF printing is a lower-cost process that provides great flexibility to deliver high quality, eye-catching results.

Shades

PAPIJET Yellow TxPF







PAPIJET White TxPF

*PAPIJET cleaner TxPF

Physical Properties

| Parameter | from | up to | Unit | Measuring Instrument |
|---------------------|-------------|-------|---------|--|
| Surface tension | 25.0 | 40.0 | dyne/cm | K20 EASY DYNE [KRUSS Scientific Company] |
| Viscosity (dynamic) | 3.0 | 4-5 | сР | LVDV-II + Pro [Brookfield Engineering Laboratory] |
| рН | 8.0 | 9.0 | - | Orion 3 Star [Thermo Electron Corporation] |
| Particle size | Color 90.0 | 130.0 | nm | NPA 252-1 |
| Particle Size | White 200.0 | 280.0 | nm | [Microtac Instrument Corporation] |

All measurements are made at 25±5°C and were recorded after 30 seconds

Application

Wide application

Optimized media: FIM-TxPF-F600 (Roll type), FIM-TxPF-F300 (Roll type)









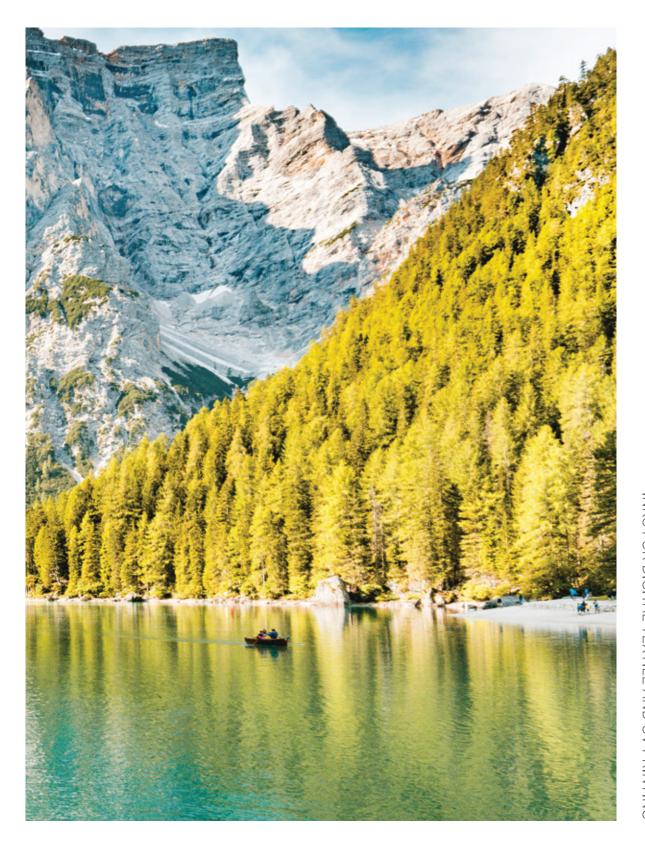






PIGMENT INK

Direct to Fabric inks





PAPIJET TXP 201 TXPK 201

Our PAPIJET Digital Textile Pigment inks deliver high quality prints on a wide range of fabrics. The inks give excellent output stability and are optimized to print with both Epson (TxP) and Kyocera (TxPK) heads. The eco-friendly inks are simple to process and require no further treatment. Prints are soft to touch and exhibit excellent rubbing fastness. The inks give excellent whites that also act as a strong base to deliver clear images.

Shades

PAPIJET
Yellow
TxP/TxPK 201

PAPIJET Orange TxPK 201 PAPIJET Magenta TxP/TxPK 201

PAPIJET Red TxPK 201 PAPIJET Cyan TxP/TxPK 201

PAPIJET Green TxPK 201 PAPIJET Black TxP/TxPK 201

PAPIJET Violet TxPK 201 PAPIJET White TxP/TxPK 201

Fastness Properties (TxP 201 / TxPK 201)

| | Washing | Rub | bing | Water | Light | Perspiration | |
|-----------------|-------------|-------------|------|-------------|-------------|--------------|--|
| TxP 201 | ISO 105-C06 | ISO 105-X12 | | ISO 105-E01 | ISO 105 B02 | 100 105 504 | |
| | 130 103-000 | Dry | Wet | 130 103-201 | 130 103 002 | ISO 105-E04 | |
| Cyan TxP 201 | 4-5 | 4 | 4 | 4-5 | 7 | 4-5 | |
| Magenta TxP 201 | 4-5 | 4-5 | 4 | 4-5 | 6-7 | 4-5 | |
| Yellow TxP 201 | 4-5 | 4 | 4 | 4-5 | >7 | 4-5 | |
| Black TxP 201 | 4-5 | 4-5 | 3-4 | 4-5 | >7 | 4-5 | |

| TxPK 201 | Washing | | bing 05-X12 | Water | Light | Perspiration |
|------------------|-------------|-----|----------------|-------------|-------------|--------------|
| IXPK 201 | ISO 105-C06 | Dry | Wet | ISO 105-E01 | ISO 105 B02 | ISO 105-E04 |
| Yellow TxPK 201 | 4-5 | 4 | 4 | 4-5 | 6-7 | 4-5 |
| Magenta TxPK 201 | 4-5 | 4 | 4 | 4-5 | 7 | 4-5 |
| Cyan TxPK 201 | 4-5 | 4 | 4 | 4-5 | >7 | 4-5 |
| Black TxPK 201 | 4-5 | 4-5 | 3-4 | 4-5 | >7 | 4-5 |
| Orange TxPK 201 | 4-5 | 4 | 4 | 4-5 | 3 | 4-5 |
| Red TxPK 201 | 4-5 | 4-5 | 4-5 | 4-5 | 5 | 4-5 |
| Green TxPK 201 | 4-5 | 4-5 | 4 | 4-5 | 6-7 | 4-5 |
| Violet TxPK 201 | 4-5 | 4-5 | 4 | 4-5 | 6-7 | 4-5 |

Application

Cotton, viscose, silk, wool, linen, polyester & blends





Certified ISO 9001 ISO 1400 ISO 4500

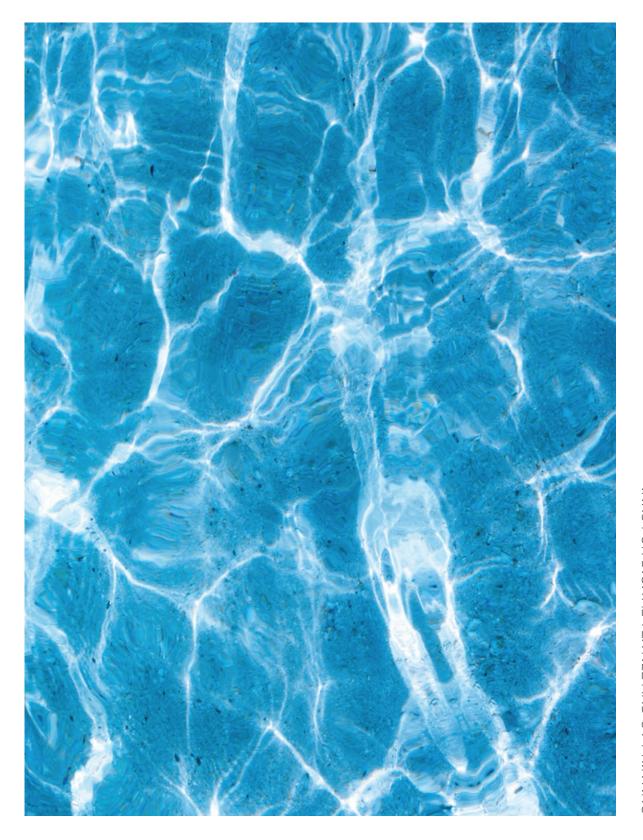






SUBLIMATION INK

The next generation of sublimation inks





PAPIJET LTIK 402 FOR KYOCERA

PAPIJET LTIK 402 has been developed for transfer sublimation printing and is compatible with Kyocera print heads. It shows excellent runnability on all printers equipped with Kyocera KJ4B print heads. It is a water-based, dispersed, eco-friendly ink for digital sublimation printing with the highest transfer yield. PAPIJET LTIK 402 has outstanding transferability on coated and uncoated paper and exhibits higher strength than other sublimation inks. It also displays bright shades with good fastness properties.

Shades

PAPIJET Yellow LTIK 402







Fastness Properties

On Polyester

| | Light (Blue scale) | Washing | Water | Perspiration | Rubbing |
|------------------|-----------------------|-------------|-------------|--------------|-------------|
| | ISO 105-B02 | ISO 105-C06 | ISO 105-C06 | ISO 105-E04 | ISO 105-X12 |
| | Ch | Ch | Ch | Acid/Alkali | Dry/Wet |
| Cyan LTIK 402 | 5 | 4-5 | 4-5 | 4-5/4-5 | 4-5 |
| Magenta LTIK 402 | 6 | 4-5 | 4-5 | 4-5/4-5 | 4-5 |
| Yellow LTIK 402 | 7 | 4-5 | 4-5 | 4-5/4-5 | 4-5 |
| Black LTIK 402 | 4 | 4-5 | 4-5 | 4-5/4-5 | 4-5 |

^{*}Blue Scale Standard is based on the 7-step scale of 1 to 7, where 1 is bad and 7 is good.

The following data represents results of internal test performed with the specified ink and fabric. Results in actual end use may vary depending on the particular conditions of use.

Application

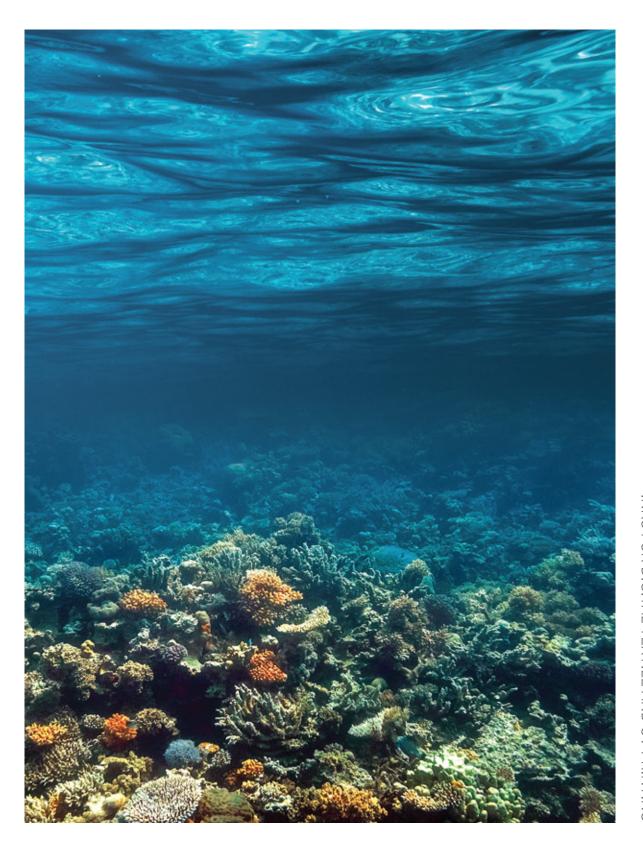






SUBLIMATION INK

The next generation of sublimation inks





PAPIJET LT | 403 FOR EPSON

To print on polyester fabrics without steaming and washing, sublimation printing, also known as transfer printing, is the solution. You firstly print the image onto sublimation paper using PAPIJET LTI 403 inks and then transfer the image from paper to the polyester fabric. PAPIJET LTI 403 is a water-based, disperse, eco-friendly ink for digital direct and sublimation printing with the highest transfer yield using a high concentration ink. PAPIJET LTI 403 shows excellent transferability especially on uncoated paper and exhibits higher color strength than other sublimation inks. It also delivers bright shades with good fastness properties.

Shades

PAPIJET Yellow LTI 403

PAPIJET Magenta LTI 403

PAPIJET Cyan LTI 403

PAPIJET Black LTI 403

Fastness Properties

On Polyester

| | Washing | Rubbing | Perspiration | Water | Light (Blue scale) |
|-----------------|---------------------|---------------------|---------------------|---------------------|-----------------------|
| | ISO 105 C06:2010 | ISO 105 X12:2016 | ISO 105 E04:2013 | ISO 105 E01:2013 | ISO 105 B02:2014 |
| Cyan LTI 403 | 4-5 | 4-5 | 4-5 | 4-5 | 6 |
| Magenta LTI 403 | 4-5 | 4-5 | 4-5 | 4-5 | 7 |
| Yellow LTI 403 | 4-5 | 4-5 | 4-5 | 4-5 | 7 |
| Black LTI 403 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 |

^{*}Blue Scale Standard is based on the 7-step scale of 1 to 7, where 1 is bad and 7 is good.

The following data represents results of internal test performed with the specified ink and fabric. Results in actual end use may vary depending on the particular conditions of use.

Application

Polyester and its blends for sportswear, swimwear, flags and banners



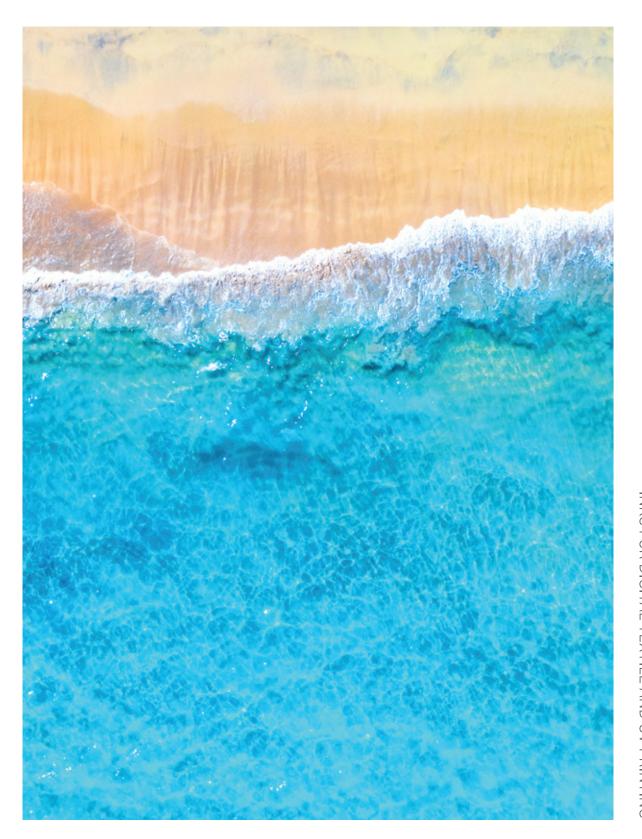




UV INK

Flexible inks with high adhesion







LED R301

| Shades | Cyan, Magenta, Yellow, Black, White | | | |
|---------------------------|---|--|--|--|
| Features | Flexible type | | | |
| | No VOCs, good adhesion & flexibility, excellent color, good rubbing resistance, excellent stability | | | |
| Specification | Ricoh, Toshiba, Konica Minolta, Seiko | | | |
| · | Viscosity(25°C, cP): 19~22, surface tension (mN/m): 20~40 | | | |
| Application(Substrate) | ABS, PC, PS, PET, PVC, Leather (PU), PMA, PMMA etc | | | |
| Storage Condition/Packing | 1kg Bottle, It is recommended to keep cool and protect from light and heat | | | |
| | (Temperature 10~30°C) | | | |
| Adhesion Chart | ○○○○ (ABS, PC, PS, PET, PVC, PU, PMA / PMMA) | | | |

LED R312

| Shades | Cyan, Magenta, Ye ll ow, Black, White | | | |
|---------------------------|--|--|--|--|
| Features | Universal type | | | |
| | No VOCs, good adhesion & flexibility, excellent color, excellent stability and reproducibility | | | |
| Specification | Ricoh, Toshiba, Konica Minolta, Seiko | | | |
| • | Viscosity(25°C, cP) : 19~22, surface tension (mN/m) : 20~40 | | | |
| Application(Substrate) | ABS, PET, PVC, PC, PS etc | | | |
| Storage Condition/Packing | 1kg Bottle, It is recommended to keep cool and protect from light and heat | | | |
| | (Temperature 10~30°C) | | | |
| Adhesion Chart | OOOO (ABS, PC, PS, PET, PVC) | | | |

LED R421

| Shades | Cyan, Magenta, Yellow, Black, White, Light Cyan, Light Magenta | | | | |
|---------------------------|---|--|--|--|--|
| Features | Rigid Type | | | | |
| | No VOCs, NVC Free, Excellent Hardness(up to 4H), Good Adhesion, Excellent Color | | | | |
| | Good rubbing resistance, Excellent Stability | | | | |
| Specification | Ricoh, Toshiba, Konica Minolta Seiko | | | | |
| | Viscosity(25°C, cP): 19~23 cP, Surface tension: 20~40 mN/m | | | | |
| Application(Substrate) | ABS, PET, PVC, PC, PS etc | | | | |
| Storage Condition/Packing | 1kg Bottle, It is recommended to keep cool and protect from light and heat | | | | |
| | (Temperature 10~30°C) | | | | |
| Adhesion Chart | OOOO (ABS, PET, PVC, PC, PS) | | | | |
| Hardness Chart | 0000 (PET, PMMA) | | | | |

LED E312

| Shades | Cyan, Magenta, Yellow, Black, White, Light Cyan, Light Magenta | | | | |
|---------------------------|--|--|--|--|--|
| Features | Universal type | | | | |
| | No VOCs, good adhesion & flexibility, excellent color, excellent stability and reproducibility | | | | |
| Specification | Ricoh (Mimaki), Epson | | | | |
| | Viscosity(25°C, cP) : 8~12, surface tension (mN/m) : 20~40 | | | | |
| Application(Substrate) | ABS, PET, PVC, PC, PS etc | | | | |
| Storage Condition/Packing | 1kg Bottle, It is recommended to keep cool and protect from light and heat | | | | |
| • | (Temperature 10~30°C) | | | | |
| Adhesion Chart | OOOO (ABS, PET, PVC, PC, PS) | | | | |

PAPIJET UV inks comply with RoHS hazardous chemicals requirements











PAPIJET

DTP

| Туре | Series | | Shades | Print Head | |
|---------------------|--|-------------|-----------|------------|--|
| Sublimation Inks | LTI 203 (PES) LTI 403, 413 (PES) | | СМҮК | Epson | |
| | LTIK 402 (PES) | | СМҮК | Kyocera | |
| Reactive Inks | TxRK 403 (Cellulose) | | CMYKORBG | Kyocera | |
| Pigment | DTP DTP / DTG | TxP 201 | CMYKW | Epson | |
| | | TxPK 201 | CMYKORGVW | Kyocera | |
| | DTF | TxPF | CMYKW | Epson | |
| | Pre-Treatment | TxPT-CLK 20 | | | |
| | | TxPT-CDB 50 | | | |
| Powder | PAPILION (Colorant) Sublimation, Reactive powder | | | | |
| | PAPICEL IJ | | | | |
| | PAPICEL (Millbase) MBb series for sublimation Inks MBb-TD series for disperse Inks | | | | |

Signage

| Туре | Series | Shades | Print Head | |
|---------|----------------------------|-----------|--|--|
| UV Inks | LED R301 Flexible Type | CMYKW | Ricoh, Toshiba, Konica Minolta, Seiko (ABS, PC,PS,PET, PVC,PU,PMA,PMMA) | |
| | LED R312 Universal Type | CMYKW | Ricoh, Toshiba, | |
| | LED R421 Rigid Type | CMYKWLcLm | Konica Minolta, Seiko (ABS,PC,PS,PET,PVC) | |
| | LED E312 Universal Type | CMYKWLcLm | Ricoh(Mimaki), Epson (ABS, PET, PVC, PC, PS etc) | |

















Qualification

| Туре | Explanation | |
|------------------------------|---|--|
| bluesign® | Since 2010, KISCO has been certified under the bluesign® system. The bluesign® system is a sustainability framework for the entire textile supply chain. The process tracks the progress of companies in five key areas: resource productivity, consumer safety, air emissions, water emissions and occupational health and safety. | |
| GOTS | The Global Organic Textile Standard (GOTS) is the worldwide leading textile processing standard for organic fibres, including ecological and social criteria, backed up by independent certification of the entire textile supply chain. KISCO's compliance with GOTS is certified by ECOCERT. | |
| ZDHC | The ZDHC Foundation manages the Roadmap to Zero Programme with the aim of phasing out hazardous chemicals in the textile, apparel, footwear and leather value chain by promoting safer chemistry and driving innovation. | |
| GREENGUARD | GREENGUARD Certification, issued by UL, assesses and certifies products like building materials and furniture for compliance with indoor air quality standards. It rigorously measures emissions of substances like volatile organic compounds, formaldehyde, and particles to ensure environmental and health safety. | |
| ECO PASSPORT by OEKO-TEX® | ECO PASSPORT BY OEKO-TEX® is a chemical, dye and additive certification used in textile and leather production. This means that they are responsible for production and handling chemicals to protect people and the environment, and our certified dye and ink products are proof that they are suitable for sustainable textile production. | |

















HEAD OFFICE

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URL:www.kisco.co