

Technical features

Colour	Code ST-K11	Light Fastness (EN ISO 105 B 02)	Washing Fastness (EN ISO 105 C 02)	Perspiration Fastness (EN ISO 105 E 04)	Sublimation Class
Black Night	271	5-6	4-5	4-5	B-C
Cyan	230	5-6	4-5	4-5	C
Magenta	210	6-7	4-5	5	C
Yellow	200	6-7	4-5	4-5	B
Iso Black*	274	5-6	4-5	5	B-C
Light Cyan	231	5-6	4-5	4-5	C
Light Magenta	211	6-7	4-5	5	C
Turquoise	232	6-7	5	5	C
Blue	240	6	4-5	5	B-C
Orange	250	5-6	4-5	5	B
Total Black	272	6	4-5	5	B-C
Yellow Fluo	280	4	4-5	5	B
Pink Fluo	281	5	4-5	5	C
Full Black	273	5-6	4-5	5	B-C

* Available from April 2016

NOTE: the listed results are referred to 100% PES fabrics. For any different fabric and further details, please contact us.

DISCLAIMER

The information included in this document are based on the actual experience and knowledge and they are not intended to be exhaustive. This product is for professional use only. Any product use other than those specifically recommended with no further confirmation by Isocarbo is at one's own risk. Isocarbo guarantees that all given instruction about Isonik ST-K11 is correct. Isocarbo has no control over either the quality or the conditions of the substrate or factors that may affect Isonik ST-K11 performance. Isocarbo strongly recommends that extensive preliminary tests are performed, in order to evaluate any unexpected product behavior. Unless otherwise approved in writing, Isocarbo shall not be liable for any different performance, loss or damage due to unaccepted use of Isonik ST-K11. Isocarbo ensures its commitment to ongoing product development and improvement; hence the content of this technical sheet is susceptible to changes.

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Isonik ST-K11

Steady and reliable performance for industrial process

isonik



isonik



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ST-K11

KYOCERA	SPORTSWEAR / SPORTS EQUIPMENT	BRILLIANT AND VIVID COLOURS	TRANSFER PRINTING	HIGH SPEED EQUIPEMENT	FOR COATED AND UNCOATED PAPER
STORAGE CONDITIONS 5-35° C TEMPERATURE DRY AND WELL VENTILATED ENVIRONMENT	PRINTING CONDITIONS 20-25° C TEMPERATURE 40-60 HR HUMIDITY RANGE	SHIPMENT TRANSPORT 5-35° C TEMPERATURE REFRIGERATE CONTAINER FOR LONG DISTANCE	TRANSFER CONDITIONS 200-210° C FOR 35-45 SEC.	PACKAGING AVAILABLE 5KG TANK	PRODUCT HEAT-SENSITIVE NO MORE 35° C NO EXPOSURE TO DIRECT SUN LIGHT

Main features

Product Performances

Printability				■ ■ ■ ■ ■
Colour Gamut				■ ■ ■ ■ ■
Dye concentration				■ ■ ■ ■ ■
Drying speed				
Colour Yield coated paper				■ ■ ■ ■ ■
Colour Yield uncoated paper				■ ■ ■ ■ ■

Process Performances

Industrial production			■ ■ ■	
Long-run production				■ ■ ■ ■ ■
Fashion papers				■ ■ ■ ■ ■
Sportswear papers				■ ■ ■ ■ ■
Transfer rate			■ ■ ■	
Ink saving				■ ■ ■ ■ ■

SUFFICIENT ■
 GOOD ■ ■
 VERY GOOD ■ ■ ■
 EXCELLENT ■ ■ ■ ■

Product description

Isonik ST-K11 is a highly concentrated water-based digital sublimation ink for transfer printing. The product is suitable for all printers equipped with Kyocera piezoelectric technology. The long-run test performed on different printers such as MS Italy and Reggiani have shown outstanding performances. Isonik ST-K11 is the right choice for industrial printing facilities based on high speed equipment. Since April 2015, the entire series of Isonik ST-K11 has been approved and certified by MS Printing Solution, a Dover Company.

Main features

Isonik ST-K11 has brilliant and vivid colours that ensure a wide and deep colour gamut. The innovative technology of Isonik ST-K11 is specifically conceived to deliver very high drying rates and to achieve exceptional colour intensity both on coated and uncoated papers. Isonik ST-K11 grants also the best color release at standard transfer conditions (200-210°C/35-45 sec). The product's unique rheological properties, confer it an excellent jettability and guarantee massive industrial productions without the constant interruptions for cleaning procedures. The best performance of Isonik ST-K11 can be achieved with any kind of sublimation papers.

Applications

Isonik ST-K11 is recommendable for 100% polyester fabrics or in blends with different fibers (lycra, viscose, cotton, acrylic) with a minimum percentage of 70%. It can also be used on any substrate (alu, wood, ceramic, glass, etc.) usually unsuitable for the sublimation process, after doing a pretreatment with polyester-polyamide resins. Isonik ST-K11 is suitable for sportswear, technical sport equipment (snowboard, ski, wakeboard, bike frame, etc), garments, flag and banners, ceramics, wood, gadgets and decorations.

Instructions

The product is ready for use.

- Keep Isonik ST-K11 at room temperature at least 24h before use.
- Set the operation conditions as follows:
 - temperature range: 20-25°C
 - relative humidity range: 40-60 RH %
- Transfer Isonik ST-K11 by using of a calender or a flat press at a temperature of 200-210°C for 35/45 sec.
- Follow the label instructions and the MSDS enclosed.

Preliminary tests are recommended in order to set the best operative parameters (T°C/t sec) and to achieve the desired result.

IMPORTANT: Product performance could vary according to the hardware, software, paper and type of process used.

Packaging and Shipment conditions

Isonik ST-K11 is available in 5Kg tank.

The product is heat-sensitive.

Extensive exposure at a temperature higher than 35°C may irreversibly damage its properties.

- Shipment instructions:
 - temperature range: 5-35°C
 - refrigerated container is suggested for long distance shipment.
- Storage instructions:
 - Avoid exposure to direct sun light.
 - Store Isonik ST-K11 in a dry and well ventilated environment at a temperature range of 5-35°C.