

Technical features

Colour	Code ST-K33	Light Fastness (EN ISO 105 B 02)	Washing Fastness (EN ISO 105 B 02)	Perspiration Fastness (EN ISO 105 B 02)	Sublimation Class
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
Black	270	6	4-5	4-5	B-C

Colors Available in Version HLF (High Light Fastness) upon request.



Isonik ST-K33
Excellent visual properties

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 usage other than those specifically recommended with no further confirmation by Isocarbo is at one's own risk. Isocarbo guarantees that all given instructions about Isonik ST-K33 are correct. Isocarbo has no control over either the quality or the conditions of the substrate or factors that may affect Isonik ST-K33 performance. Isocarbo Srl 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-K33. 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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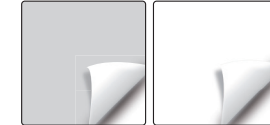


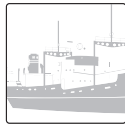

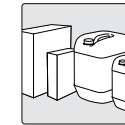

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Excellent visual properties

ST-K33

 KYOCERA	 FLAGS / BANNERS	 BRILLIANT AND VIVID COLOURS	 TRANSFER PRINTING	 DIRECT PRINTING	 FOR COATED AND UNCOATED PAPER
 STORAGE CONDITIONS 5-30° C TEMPERATURE DRY AND WELL VENTILATED ENVIRONMENT	 PRINTING CONDITIONS 20-25° C TEMPERATURE 40-60 HR HUMIDITY RANGE	 SHIPMENT TRANSPORT 5-30° 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 30° 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		■ ■		
Colour Yield direct printing			■ ■ ■ ■	

Process Performances

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

SUFFICIENT
GOOD
VERY GOOD
EXCELLENT

Product description

Isonik ST-K33 is a water-based digital sublimation ink dedicated to direct printing process and transfer printing as well. The product is suitable for printers equipped with piezoelectric technology: the long-run test performed on different printers has shown good run ability with Kyocera KJ4B printing heads, fulfilling the highest market requirements.

Main features

Isonik ST-K33 has brilliant and vivid colors that allow to obtain a highly wide and deep color gamut. Its formulation gives to the product good drying properties both on fabrics and paper; as it can easily pass through the fiber, it is the best choice to print on two-sided fabrics. By transfer printing too, Isonik ST-K33 grants the best color release at standard conditions (200/210°C–35/45 sec). It has an excellent jettability and very good drying properties, so it is suitable for fast long-run productions, without the constant interruptions for cleaning procedures.

Applications

Isonik ST-K33 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-K33 is specifically formulated for banners and flags even if it is suitable for sportswear, technical sport equipment (snowboard, ski, wakeboard, bike frame, etc), garments, ceramics, wood, gadgets and decorations.

Instructions

The product is ready to use.

- Keep Isonik ST-K33 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 %

- By direct printing, use Isonik ST-K33 on pretreated fabrics only.

- Printed fabric is fixed at a calender or a flat press at a temperature of 200-210°C for 35/45 sec.

When fixed, fabric is ready to use.

- Washing is suggested in order to remove chemical additives used for pretreatment and the unfixed color waste.
- Follow the label instructions and the MSDS enclosed.

Preliminary test is 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-K33 is available in 5Kg tank.

The product is heat-sensitive.

Extensive exposure at a temperature higher than 30°C may irreversibly damage its properties.

- Shipment instructions:
 - temperature range: 5-30°C
 - refrigerated container is suggested for long distance shipment.

- Storage instructions:

- Avoid exposure to direct sun light.
- Store Isonik ST-K33 in a dry and well-ventilated environment at a temperature range of 5-30° C.