Technical features

| Colour | Code ST-E33 | Light Fastness (EN ISO 105 B 02) | Washing Fastness (EN ISO 105 C 02) | Perspiration Fastness (EN ISO 105 E 04) | Sublimation Class |
|----------------|-----------------------|-------------------------------------|---------------------------------------|--|----------------------|
| Cyan | 230 | 5-6 | 4-5 | 4-5 | С |
| Magenta | 210 | 6-7 | 4-5 | 5 | С |
| Yellow | 200 | 6-7 | 4-5 | 4-5 | В |
| Black | 270 | 6 | 4-5 | 4-5 | B-C |
| Orange* | 250 | 5-6 | 4-5 | 5 | В |
| Blue* | 240 | 6 | 4-5 | 5 | B-C |
| Turquoise* | 232 | 6-7 | 5 | 5 | С |
| Red* | 220 | 6-7 | 4-5 | 5 | B-C |
| Light Cyan* | 231 | 5-6 | 4-5 | 4-5 | С |
| Light Magenta* | 211 | 6-7 | 4-5 | 5 | С |

* available from May 2016

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

Isonik ST-E33

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-E33 are correct. Isocarbo has no control over either the quality or the conditions of the substrate or factors that may affect Isonik ST-E33 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-E33. 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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Excellent for direct printing on Soft signage







ST-E33





FLAGS / BANNERS EPSON FROM DX3 TO DX7



40-60 HR HUMIDITY RANGE









TRANSFER 200-210°C FOR 35-45 SEC.

TRANSFER PRINTING

PACKAGING 5KG TANK 2KG,5KG BOX

DIRECT PRINTING



NO MORE 35°C NO EXPOSURE TO DIRECT SUN LIGHT

FOR COATED

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 | | |



Product description

Isonik ST-E33 is a water-based digital sublimation ink dedicated to direct printing process and transfer printing as well. The product is suitable for all printers equipped with Epson piezoelectric technology. The long-run test performed on different printers such as Roland, Mimaki, Mutoh and Epson has shown good run ability with all Epson printing heads (DX3, DX4, DX5, DX7), fulfilling the highest market requirements.

Main features

Isonik ST-E33 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-E33 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-E33 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-E33 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 for use.

- Keep Isonik ST-E33 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-E33 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 for 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-E33 is available in 5Kg tank and 2kg and 5 Kg boxes. The product is heat-sensitive.

- Extensive exposure at a temperature higher than 35°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-E33 in a dry and well ventilated environment at a temperature range of 5-30°C.

Isonik ST-E33

Excellent for direct printing on Soft signage