

Technical features

Colour	Code ST-R11	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	C
Magenta	210	6-7	4-5	5	C
Yellow	200	6-7	4-5	4-5	B
Black Night	271	5-6	4-5	4-5	B-C
Full Black	273	5-6	4-5	5	B-C

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

Isonik ST-R11

Ideal for ongoing and
constant production processes

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-R11 are correct. Isocarbo has no control over either the quality or the conditions of the substrate or factors that may affect Isonik ST-R11 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-R11. 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-R11

RICOH GEN4, GEN5	INDUSTRIAL PROCESSES	SPORTSWEAR / SPORTS EQUIPEMENT	BRILLIANT AND VIVID COLOURS	TRANSFER PRINTING	FOR COATED AND UNCOATED PAPER	FAST DRYING
FAST DRYING	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				■ ■ ■ ■ ■



Product description

Isonik ST-R11 is a water-based digital sublimation ink for transfer printing suitable for all printers equipped with RICOH (GEN4, GEN5) piezoelectric technology.

Main features

Isonik ST-R11 has brilliant and vivid colors that ensure a very wide and deep color gamut. Isonik ST-R11 proves to have outstanding drying properties both on coated and uncoated papers, preserving 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, guarantees long-run productions and prevent from frequent cleaning downtime. Isonik ST-R11 is the best choice for industrial production.

Applications

Isonik ST-R11 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-R11 is suitable for sportswear, fashion, 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-R11 at room temperature at least 24h before use.
- Shake gently before use.
- Set the operation conditions as follows:
 - temperature range: 20-25°C
 - relative humidity range: 40-60 RH %
- Transfer Isonik ST-R11 by using 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-R11 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-R11 in a dry and well ventilated environment at a temperature range of 5-35°C.