

## Technical features

Colour	Code RT-K13	Light Fastness (EN ISO 105 B 02)	Washing Fastness (EN ISO 105 C 02)	Acid Perspiration Fastness (EN ISO 105 E 04)	Water Fastness (ISO 105-E01)
Cyan	330	5	4-5	4-5	4-5
Magenta	310	5	5	5	5
Yellow	300	5	5	4-5	5
Black	370	4-5	5	4-5	4-5
Orange	350	5-6	5	4-5	5
Blue	340	5-6	5	5	5
Red	320	4-5	5	5	5
Grey	390	4-5	4-5	4-5	4-5
Deep Black	371	Available from June 2017			

NOTE: the listed results are referred to 100% cotton. 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 RT-K13 is correct. Isocarbo has no control over either the quality or the conditions of the substrate or factors that may affect Isonik RT-K13 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 RT-K13. 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 RT-K13

Brilliant and intense colors, stable and constant quality

# isonik



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## RT-K13

<b>KYOCERA</b>	FASHION HOME TEXTILE UPHOLSTERY	BRILLIANT AND VIVID COLOURS	DIRECT PRINTING	HIGH SPEED EQUIPEMENT	FOR PRE TREATED FABRICS
<b>STORAGE CONDITIONS</b> 10-30° C TEMPERATURE DRY AND WELL VENTILATED ENVIRONMENT	<b>PRINTING CONDITIONS</b> 20-25° C TEMPERATURE 40-60 HR HUMIDITY RANGE	<b>SHIPMENT TRANSPORT</b> 10-30° C TEMPERATURE REFRIGERATE CONTAINER FOR LONG DISTANCE	<b>FIXATION CONDITIONS:</b> 102° C FOR 10-12 MINS IN SATURED STEAMS	<b>PACKAGING AVAILABLE</b> 5 AND 20KG TANK	<b>PRODUCT HEAT-SENSITIVE</b> NO MORE 30° C NO EXPOSURE TO DIRECT SUN LIGHT

## Main features

### Product performances

Printability				■ ■ ■ ■ ■
Colourgamut				■ ■ ■ ■ ■
Dye concentration			■ ■ ■	
Colour yield				■ ■ ■ ■ ■
Drying speed			■ ■ ■	

### Process performances

Industrial production				■ ■ ■ ■ ■
Long-run production				■ ■ ■ ■ ■
Ink saving			■ ■ ■	



## Product description

ISONIK RT-K 13 is a digital reactive ink for direct printing onto textile substrates composed by cellulosic fibers, ideal for all plotters equipped with Kyocera Aqueous Model KJ4B. To guarantee the best performances ISONIK RT-K 13 series has been thoroughly tested on long-run printing jobs on different printers (Scanning e Single Pass) equipped with the above model of Piezo Printhead such as MS Printing Solutions-Dover, Reggiani Macchine-EFI and other Printers' manufacturers. Results demonstrated outstanding performances of run-ability and reliability for the most intensive and industrial printing processes. ISONIK ST-K 13 series has been approved and certified by MS Printing Solutions – Dover.

## Main features

ISONIK RT-K 13 has been formulated starting from an accurate selection and processing of dyes, developed thanks to the deep and consolidated knowledge of the production processes and of the raw materials. The extremely bright and intense colours allow to get a very deep and wide colour gamut. Its formulation is designed to ensure optimal application performances and massive industrial productions with constant high printing quality which permits to work avoiding frequent interruptions for cleaning procedures.

## Applications

ISONIK RT-K 13 is a product designed for textile direct printing onto cellulosic fibers (cotton, viscose, linen, etc), wool and silk. ISONIK RT-K 13 may find use in the production of fashion, clothing, home textiles, curtains and upholstery. ISONIK RT-K 13 Series can be superbiously utilized in CMYK processes, 6 colors processes and in 8 colors processes with outstanding results.

## Instructions

The product is ready for use.

- keep ISONIK RT-K 13 at room temperature at least 24h before use.
- set the Operation Conditions as follows:
- temperature range 23 +/- 3°C
- relative humidity range 50 +/- 10 RH%
- ISONIK RT-K 13 It must be printed on fabric pretreated with appropriate products in order to ensure the maximum degree of dye fixation, high colour yield, optimal quality of fine details and no colour release on unprinted parts.

- After printing it is necessary to:

- 1) hot-dry the fabric at 110-120°C
- 2) steam the fabric for colour fixation in saturated steam at 102°C for 8-15 mins
- 3) wash the fabric following the procedure: cold water at 20-25°C -> warm water at 40°C (if Deep Black code is used, neutralize the pH with Acetic Acid) -> warm water at 70°C -> soaping with 1-2 g/L of specific detergent at 90°C -> rinse with cold water at 20-25°C.

We suggest to follow label instructions, MSDS and process data sheet enclosed.

Preliminary tests are always recommended in order to set up the best operative parameters and to achieve the desired result.

**WARNING:**

Product performance could vary according to the hardware, software, substrate characteristics and process used.

## Packaging and shipment

ISONIK RT-K 13 is available in 5 Kg and 20 Kg tank.

The product is heat-sensitive.

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

Shipment instructions:

- Temperature range 10-30°C
- Refrigerated container (15-20 °C) is suggested for long distance shipment

Storage instructions:

- Avoid exposure of ISONIK RT-K 13 to direct sun light;
- Store ISONIK RT-K 13 in a dry and well ventilated environment at a temperature range of 10-30°C.