efi *REGGIANI IRIS*

Water-based Disperse Sublimation Inks
for Digital Textile Printing

Intensify the beauty of your textiles with our water-based ink technology

IRIS's water-based inks print brilliantly with EFI Reggiani digital printers

Extended color gamut and high chroma guarantee stunning results to your digital textile printing. Plus, they're dual-use inks that perform astonishingly well whether used in sublimation or direct printing.

These eco-friendly, water-based inks are designed to leverage EFI™ Reggiani digital printers' performance. And like all of our inks, they've been designed for the Kyocera printhead technology, which ensures an extraordinary level of print durability, longer life of printheads, and reduced maintenance costs.
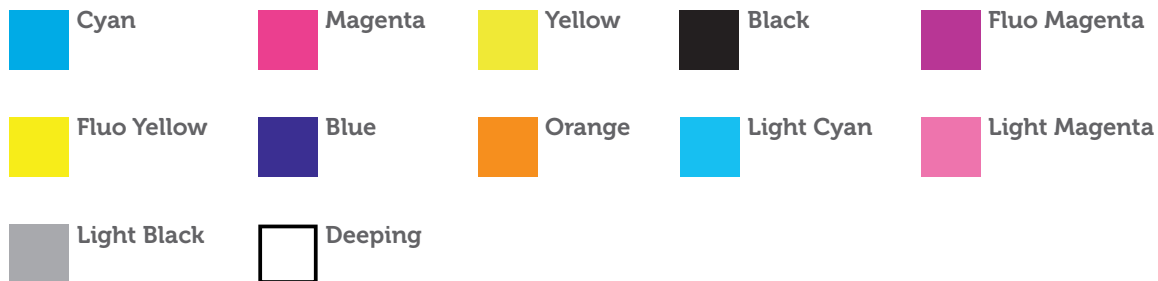
Integrated solution

- Strongest worldwide experience and knowledge
- Full technological support provided by EFI Reggiani
- Continuous quality control
- 12-month warranty on the printheads provided by EFI Reggiani

Technical information

- **Substrates**
- Polyester and elastomer fabrics (lycra)
- **Printhead compatibility**
- Kyocera KJ4B
- **Jetting temperature**
- 89.6°F (32°C)

- **Recommended RH**
- 50%–60%
- **Shelf life**
- 12 months if stored under recommended conditions
- **Environmental conditions**
- Inks must be stored out of direct sunlight and away from heat sources

EFI Reggiani IRIS inks are available in the following colors:

- Cyan
- Magenta
- Yellow
- Black
- Fluo Magenta
- Fluo Yellow
- Blue
- Orange
- Light Cyan
- Light Magenta
- Light Black
- Deeping

Application

- Great performance for sublimation as well as direct-to-fabric printing for different applications such as fashion, sportswear, home textile, and accessories

Procedure

- Transfer printing: the printed paper must be transferred hot, through calender or press, at a temperature ranging from 392–410°F (200–210°C), for 30–60 seconds
- Direct printing onto the fabric, followed by color drying and fixing (through heat press or calender) at a temperature ranging from 347–410°F (190–210°C), for 30–60 seconds. Direct printing allows a better penetration of the ink during the heat-fixing process

Fastness properties IRIS direct

Test	Dry Rubbing ISO 105–X12	Wet Rubbing ISO 105–X12	Artificial Light 100% ISO 105–B02	Chlorine Water ISO 105–E03	Dom&Com Launder 140°F (60°C) ISO 105–C06	Acid Perspiration ISO 105–E04	Alkaline Perspiration ISO 105–E04	Water ISO 105–E01
Black	4	4	4–5	4–5	4–5	4–5	4–5	4–5
Cyan	4–5	4–5	4–5	4–5	4	4–5	4–5	4–5
Magenta	4–5	4	4–5	4–5	4	4–5	4–5	4–5
Yellow	5	5	6–7	4–5	4–5	4–5	4–5	4–5
Orange	4–5	4–5	6–7	4–5	4	4–5	4–5	4–5
Blue	4	4	4–5	4–5	4	4–5	4–5	4–5
Light Magenta	5	5	4–5	4	4–5	4–5	4–5	4–5
Light Cyan	5	5	4	4–5	4–5	4–5	4–5	4–5
Light Black	5	5	3–4	4–5	4–5	4–5	4–5	4–5
Fluo Magenta	1–2	2	5–6	3–4	3–4	4–5	4–5	4–5
Fluo Yellow	3	2	4	2–3	2–3	3	2–3	2–3

Fastness properties IRIS transfer

Test	Dry Rubbing ISO 105–X12	Wet Rubbing ISO 105–X12	Artificial Light 100% ISO 105–B02	Chlorine Water ISO 105–E03	Dom&Com Launder 140°F (60°C) ISO 105–C06	Acid Perspiration ISO 105–E04	Alkaline Perspiration ISO 105–E04	Water ISO 105–E01
Black	4–5	4–5	4–5	4–5	4–5	4–5	4–5	4–5
Cyan	5	5	4	4	4	4–5	4–5	4–5
Magenta	5	5	6–7	4–5	4–5	4–5	4–5	4–5
Yellow	5	5	6–7	4–5	4–5	4–5	4–5	4–5
Orange	4–5	4–5	5	4–5	4–5	4–5	4–5	4–5
Blue	4–5	4–5	4–5	4–5	4–5	4–5	4–5	4–5
Light Magenta	5	5	6–7	4–5	4–5	4–5	4–5	4–5
Light Cyan	5	5	4–5	4–5	4–5	4–5	4–5	4–5
Light Black	5	5	3–4	4–5	4–5	4–5	4–5	4–5
Fluo Magenta	5	5	5–6	4–5	4–5	4–5	4–5	4–5
Fluo Yellow	4	4	4	4–5	4–5	4–5	4–5	4–5

Please note that ink performances can vary according to the type substrate used in the final application.

EFI fuels success.

We develop breakthrough technologies for the manufacturing of signage, packaging, textiles, ceramic tiles, and personalized documents, with a wide range of printers, inks, digital front ends, and a comprehensive business and production workflow suite that transforms and streamlines the entire production process, increasing your competitiveness and boosting productivity. Visit www.efi.com or call 650-357-3500 for more information.

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