

Explore the new world of EFI Reggiani water-based inks

Rely on EFI™ Reggiani as your trusted partner: a full range of water-based, environmentally friendly printing inks developed leveraging EFI Reggiani's longstanding global experience, expertise, and knowledge of the textile printing market.

Key performance benefits:

- Designed to leverage EFI Reggiani digital printers' performance
- Compliance with the highest industry, sustainability, health, and safety standards:
 ZDHC Level 3, OEKO-TEX* ECO PASSPORT, GOTS
- Continuous and strict QA and QC from raw material to manufacturing to the final product
- Extraordinary colour brightness and vibrancy
- Extensive colour gamut
- Proven print head longevity by consistently meeting the highest standards of ink quality, reliability, and stability over time
- Reduced maintenance costs
- Full technological support
- Dedicated extended print heads warranty

Every kind of fabric requires a specific type of ink

Fabric	Reactive	Pigment	Acid	Dye- Sublimation	Disperse
Cellulose Fibers (Cotton, Viscose, Linen, etc.)	\checkmark	\checkmark			
Silk					
Wool	\checkmark	\checkmark	\checkmark		
Leather		\checkmark	\checkmark		
Polyamide					
Polyester		✓		✓	✓

Technical information

Printhead Compatibility	Jetting Temperature	Recommended Rh
Kyocera KJ4B	28-32° C	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 in a controlled environment

EFI Reggiani Reactive range

Deliver incomparable shades and deep intensive colours to your most demanding customers. Exploit AQUA Premium and Diamond outstanding printing results to boost your home-textile and fashion productions.

Choose your preferred black tone!

EFI Reggiani's reactive range includes a variety of black tones to match your standout digital print and to create exceptional results tailored to individual requirements:

- AQUA Premium Black
- DIAMOND HD Black
- Absolute Black
- Master Black
- Fashion Black
- Vinyl Sulfone dye based Deep Black

Technical information

Substrate	Application		
Cotton, silk, viscose rayon, linen, etc.	Home textile, décor, fashion, garment, shirts, etc.		
Procedure			
PREPARATION DRYING PRINTING STEAMING (102 °C, 8-12 I			

Standard basic preparation formulation for all EFI Reggiani reactive colourants*

Component	g/L
Thickener	100-150
Reduction inhibitor	10-20
Alkali NaHCO3	40
Hygroscopic agent (Urea)	100-200

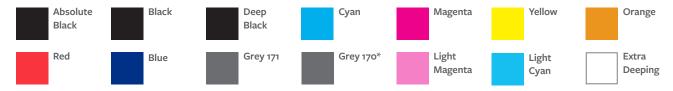
^{*} To be adjusted according to the specific customer requirement specifications

AQUA Premium Reactive

Engage discerning customers with unparalleled shades, vibrancy and deep, intensive colours for a wide range of applications on natural fabrics such as cotton, silk, viscose and linen.



EFI Reggiani AQUA Premium colourants are available in the following colours:



Fastness properties

600 dpi Colour	Light Fastness ISO 105-B02 100%	Light Fastness ISO 105-B02 50%	Washing 60°C ISO 105-C06	Water ISO 105-E01	Perspiration Acid ISO 105-E04	Perspiration Alkaline ISO 105-E04	Crocking Fastness: Dry ISO 105-X12	Crocking Fastness: Wet ISO 105-X12
Absolute Black	4	3-4	4-5	4-5	4-5	4-5	4-5	3
Black	4	3	4-5	4-5	4-5	4-5	5	3-4
Deep Black	3-4	3-4	4-5	4-5	4-5	4-5	4	3-4
Cyan	5-6	5	4	4-5	4-5	4-5	4-5	3
Magenta	3-4	3-4	4-5	4-5	4-5	4-5	5	4
Yellow	6	5–6	4-5	4-5	4-5	4-5	4-5	3-4
Orange	4-5	3-4	4-5	4-5	4-5	4-5	4-5	3
Red	4	3-4	4-5	4-5	4-5	4-5	5	3
Blue	5-6	5	4-5	4-5	4-5	4-5	5	4
Grey 170*	3-4	3	4-5	4-5	4	4-5	5	4-5
Grey 171	3	2-3	4-5	4-5	4-5	4-5	5	4-5
Light Magenta	3	2-3	4-5	4-5	4-5	4-5	5	4
Light Cyan	4	3-4	4-5	4-5	4-5	4-5	5	3-4

^{*} Grey 170 is not GOTS certified. Contact EFI Reggiani for more details.

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



E1SM1LZF9 Centexbel Textile and leather chemicals. Tested and verified. www.oeko-tex.com/ecopass

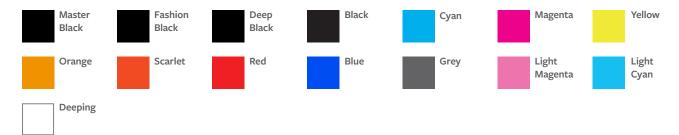
This product has achieved the ZDHC MRSL Conformance Level 3 in accordance with the ZDHC MRSL V2.0



DIAMOND Reactive

Delivers brilliant colours to meet the specific needs of customers across a wide range of applications printed on natural fabrics, such as cotton, silk, viscose rayon and linen. Choose the black you prefer among Black, Fashion Black and Master Black!

EFI Reggiani Diamond colourants are available in the following colours:



Fastness properties

600 dpi Colour	Light Fastness ISO 105-B02 100%	Washing 60°C ISO 105-C06	Water ISO 105-E01	Perspiration Acid ISO 105-E04	Perspiration Alkaline ISO 105-E04	Crocking Fastness: Dry ISO 105-X12	Crocking Fastness: Wet ISO 105-X12
Master Black	6	5	4-5	4-5	4	4-5	4
Fashion Black	6	5	4-5	4-5	4	4-5	4
Deep Black	3-4	4-5	4-5	4-5	4-5	4	3-4
Black	6	4-5	4-5	4-5	4-5	4-5	4
Cyan	6	4-5	4	4-5	4-5	4-5	3-4
Magenta	5	4-5	5	5	5	4-5	4
Yellow	6	5	4-5	4-5	4-5	5	4
Orange	5–6	4-5	4-5	4-5	4	4-5	4
Scarlet	3	4-5	4-5	4-5	4-5	4-5	4
Red	5	5	4-5	5	4	4-5	4
Blue	6	5	4-5	4-5	4	4-5	4
Grey	6	5	4-5	4-5	4	4-5	4-5
Light Magenta	2	4-5	4-5	4-5	4-5	5	5
Light Cyan	4-5	4-5	4-5	4-5	4-5	4-5	4

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





EFI Reggiani Pigment range

EFI Reggiani remains committed to developing innovative solutions that balance sustainability with machine performance. Our environmentally friendly processes focus on saving energy, water, and ink, minimizing waste and inventory, using recyclable materials, and significantly reducing environmental and health impacts throughout the entire textile printing and finishing supply chain.



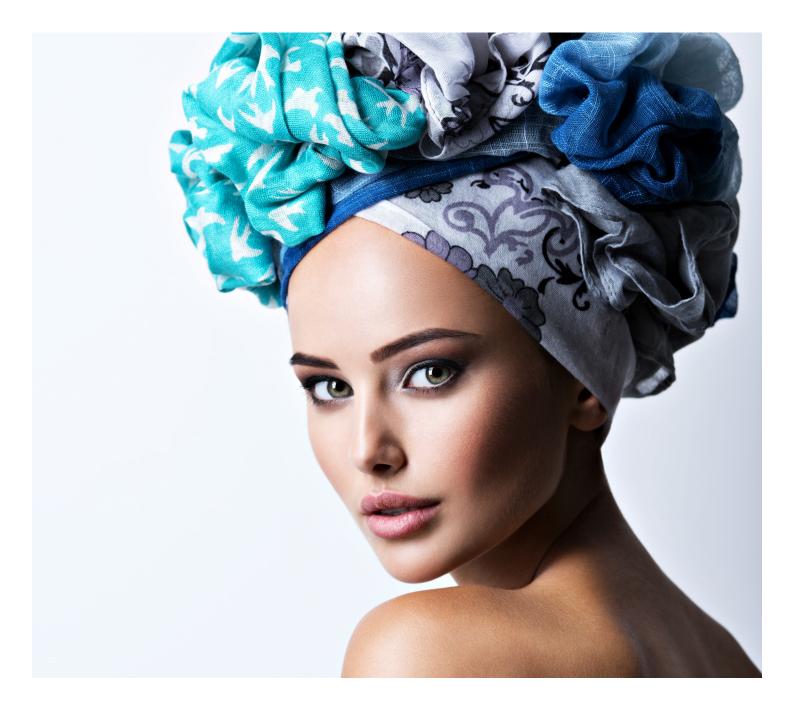
Green processes to improve sustainability performance in the textile industry

Since 2010, all EFI Reggiani digital printers have been awarded the "Green Label" by ACIMIT (Italian Association of Textile Machinery Manufacturers). This certification confirms both our commitment and the actual implementation and provision of environmentally friendly processes and solutions to our customers.



GEA Pigment Ink

GEA pigment ink without binder technology is EFI Reggiani's environmentally friendly solution for masters in pigment printing. Colour brilliance and intensity, combined with the highest light fastness far above industry average, drop precision, and printing definition extend the standard colour gamut of digital pigment inks to meet the most demanding requirements in home textile and fashion printing.



Technical information

Substrate	Application				
Cellulose fibers (Cotton, etc.), cotton polyester blends	Fashion, home-textile and accessories				
Procedure					
	ERISATION NG (STENTER)				

Standard basic preparation and post formulation

EFI Reggiani PIGMENT PRE to improve printing definition and increase colour intensity EFI Reggiani PIGMENT FINISH and ACTIVA to raise fastness results

Component	(g/L)
PIGMENT PRE	60
PIGMENT FINISH	60
PIGMENT ACTIVA	30-60

Optional post-treatment

EFI Reggiani PIGMENT SOFTENER to improve the hand feel

EFI Reggiani GEA inks are available in the following colours:



Fastness properties

600 dpi Colour	Light Fastness ISO 105-B02 100%	Washing 60°C ISO 105-C06	Water ISO 105-E01	Perspiration Acid ISO 105-E04	Perspiration Alkaline ISO 105-E04	Crocking Fastness Dry ISO 105-X12	Crocking Fastness: Wet ISO 105-X12
Black	7-8	4-5	4-5	4-5	4-5	4	3-4
Cyan	7-8	4-5	4-5	4-5	4-5	4	3-4
Magenta	7-8	4-5	4-5	4-5	4-5	4	4
Yellow	7-8	4-5	4-5	4-5	4-5	4	4
Red	7-8	4-5	4-5	4-5	4-5	4	4
Blue	7-8	4-5	4-5	4-5	4-5	4	4
Green	6-7	4-5	4-5	4-5	4-5	4	3-4
Orange	4-5	4-5	4-5	4-5	4-5	3-4	3-4

 ${\it Please note that fastness performances can vary according to the substrate used in the final application.}$



E1VLE91V1 Centexbel Textile and leather chemicals. Tested and verified. www.oeko-tex.com/ecopass This product has achieved the ZDHC MRSL Conformance Level 3 in accordance with the ZDHC MRSL V2.0



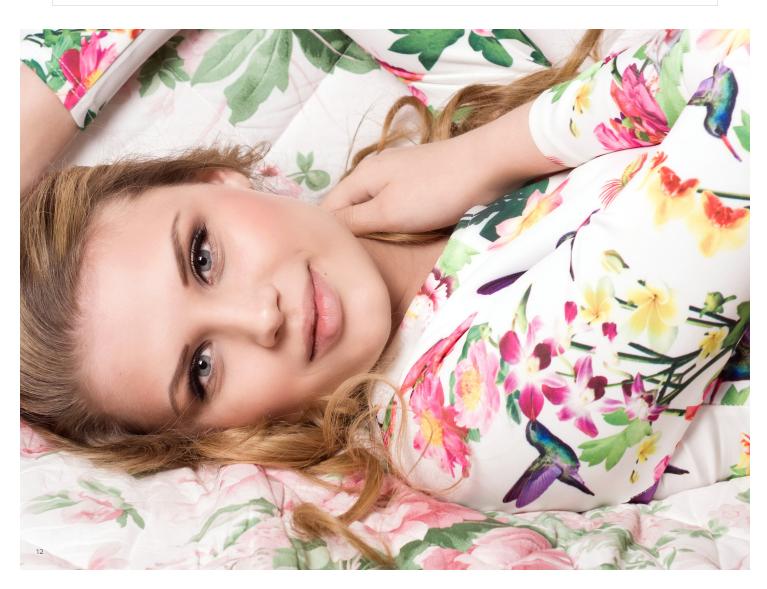
GOTS Approved Additive
Approved by Ecocert Greenlife GOTS-ECOCERT -08-01057

TERRA Pigment Ink

EFI Reggiani TERRA pigment ink incorporates binder technology that enables in-line polymerisation, provided digital printers are equipped with an appropriate polymerisation chamber, such as the EFI Reggiani TERRA printer series, to achieve excellent fastness properties and high print accuracy, producing even the finest and most sophisticated designs on a wide range of substrates.

Technical information

Substrate	Application
Cellulose fibers (Cotton, etc.), cotton polyester blends	Fashion, home-textile and accessories
Procedure	
PREPARATION PRINTING AND INLINE POLYMERIS	SATION



EFI Reggiani TERRA Preparation

EFI Reggiani TERRA PRE to easily pre-treat your fabric

Component	(g/L)
PIGMENT PRE	60

EFI Reggiani TERRA inks are available in the following colours:



Fastness properties

600 dpi Colour	Light Fastness ISO 105-B02 100%	Washing 60°C ISO 105-C06	Water ISO 105-E01	Perspiration Acid ISO 105-E04	Perspiration Alkaline ISO 105-E04	Crocking Fastness Dry ISO 105-X12	Crocking Fastness Wet ISO 105-X12
Black	6–7	4-5	4-5	4-5	4-5	4-5	3-4
Cyan	6-7	4-5	4-5	4-5	4-5	3	3-4
Magenta	6-7	4-5	4-5	4-5	4-5	3-4	3-4
Yellow	6-7	4-5	4-5	4-5	4-5	4	4
Red	6-7	4-5	4-5	4-5	4-5	3-4	3-4
Blue	6-7	4-5	4-5	4-5	4-5	4-5	3-4
Green	6	4-5	4-5	4-5	4-5	4	4

1200 dpi Colour	Light Fastness ISO 105-B02 100%	Washing 60°C ISO 105-C06	Water ISO 105-E01	Perspiration Acid ISO 105-E04	Perspiration Alkaline ISO 105-E04	Crocking Fastness Dry ISO 105-X12	Crocking Fastness Wet ISO 105-X12
Black	6-7	4-5	4-5	4-5	4-5	4-5	2-3
Cyan	6–7	4-5	4-5	4-5	4-5	3-4	3
Magenta	6-7	4-5	4-5	4-5	4-5	3	3-4
Yellow	6–7	4-5	4-5	4-5	4-5	3-4	3-4
Red	6-7	4-5	4-5	4-5	4-5	3	3
Blue	6-7	4-5	4-5	4-5	4-5	4	3
Green	6	4-5	4-5	4-5	4-5	3-4	3-4

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



E1SM1RUN8 Centexbel Textile and www.oeko-tex.com/ecopass





EFI Reggiani FUOCO Acid Ink

Benefit from the outstanding quality, unparalleled colour depth, vibrancy, and excellent fastness properties of FUOCO acid inks for advanced textile applications. EFI Reggiani's FUOCO acid inks have been specifically developed to reproduce the widest possible colour gamut with a variety of red and magenta tones and to be fully GOTS compliant by formulating specific black and grey tones. Specially formulated black and grey shades also ensure full GOTS compliance as a unique performance feature of EFI Reggiani FUOCO inks.

Technical information

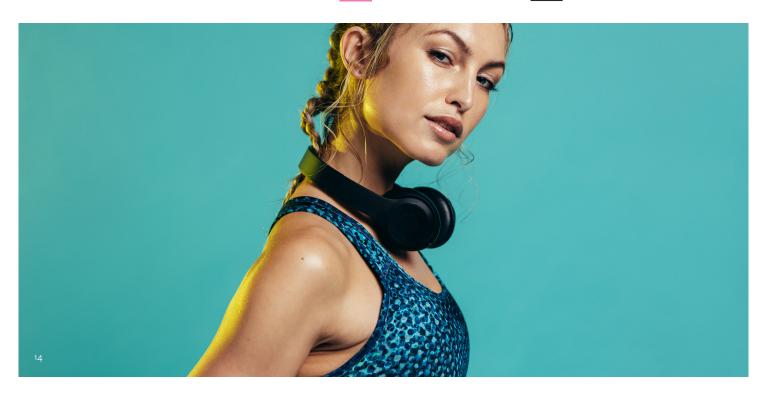
Substrate	Application			
Silk, leather, wool, polyamide, nylon	Fashion, apparel, sports- and swimwear, accessories, outdoor, flags			
Procedure				
PREPARATION PRINTING MILD STEAMING (1000 silk or 35 minut	° C, 30 minutes for was H-OFF (Cold > Warm > Cold)			

Standard basic preparation formulation

Component	(g/L)		
Antifoam	1		
Thickener	100-150		
Urea	80-100		
Antireduction	5		
Ammonium sulfate	40		

EFI Reggiani FUOCO inks are available in the following colours:





Fastness properties EFI Reggiani FUOCO on Polyamide

*Test made on 80% Polyamide/20% Lycra

600 dpi Colour	Dry Rubbing ISO 105–X12	Wet Rubbing ISO 105-X12	Artificial Light 100% ISO 105–B02	Chlorine Water ISO 105-E03	Dom&Com Launder 60° C ISO 105-C06	Acid Perspiration ISO 105–E04	Alkaline Perspiration ISO 105–E04	Water ISO 105–E01
Black	5	4-5	6-7	4-5	4-5	4-5	4-5	4-5
Black V2	5	5	4	4-5	4-5	5	5	5
Cyan	5	4-5	2-3	2-3	4-5	4-5	4-5	4-5
Magenta	5	5	3	4	4-5	4-5	4-5	4-5
Scarlet	5	4-5	6	4-5	4-5	4-5	4-5	4-5
Yellow	5	5	6-7	3-4	4-5	4-5	4-5	4-5
Orange	5	5	5	4-5	4-5	4-5	4-5	4-5
Red	5	4-5	3-4	4-5	4-5	4-5	4-5	4-5
Blue	5	4-5	6	3-4	4-5	4-5	4-5	4-5
Grey	5	5	5	3	4-5	4-5	4-5	4-5
Grey V2	5	5	2-3	3-4	4-5	4	4	4
Light Cyan	5	4-5	2	2-3	4-5	4-5	4-5	4-5
Light Magenta	5	5	2	3-4	4-5	4-5	4-5	4-5

Fastness properties EFI Reggiani FUOCO on Silk

^{*}Test made on 100% Silk

600 dpi Colour	Dry Rubbing ISO 105–X12	Wet Rubbing ISO 105-X12	Artificial Light 100% ISO 105-B02	Chlorine Water ISO 105–E03	Dom&Com Launder 60° C ISO 105–C06	Acid Perspiration ISO 105–E04	Alkaline Perspiration ISO 105–E04	Water ISO 105-E01
Black	4	4-5	6-7	4-5	4-5	4-5	4-5	4-5
Black V2	4-5	4-5	3-4	4-5	4-5	4-5	4-5	4-5
Cyan	5	4	4-5	4-5	4-5	4-5	4-5	4-5
Magenta	4-5	4-5	2-3	4-5	3-4	4-5	4-5	4-5
Scarlet	3-4	3	3-4	4	1-2	4-5	4-5	4-5
Yellow	4	4-5	6-7	3-4	4-5	4-5	4-5	4-5
Orange	3-4	4	3-4	4-5	4-5	4-5	4-5	4-5
Red	3	4	3	4-5	4-5	4-5	4-5	4-5
Blue	5	4-5	4	4-5	2	4-5	4-5	4-5
Grey	5	5	4	4	4-5	4-5	4-5	4-5
Grey V2	5	5	3-4	3-4	4-5	4-5	4-5	4-5
Light Cyan	5	4-5	4	4	4-5	4-5	4-5	4-5
Light Magenta	5	5	1-2	4-5	3	4-5	4-5	4-5

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



E1YKV1ER4 Centexbel Textile and www.oeko-tex.com/ecopass

This product has achieved the ZDHC MRSL leather chemicals. Tested and verified. Conformance Level 2 in accordance with the ZDHC MRSL V2.0



EFI Reggiani Dye-Sublimation range

The EFI Reggiani IRIS range comprises IRIS and IRIS Plus for dual applications (transfer printing and direct to fabric).

Technical information

Substrate	Application
Polyester and elastomer fabrics	Fashion, sportswear, home textile, and accessories

Procedure

Transfer printing: The printed paper must go through a calender or heat press at a temperature ranging from 200–210 °C for 30–60 seconds to transfer to fabric.

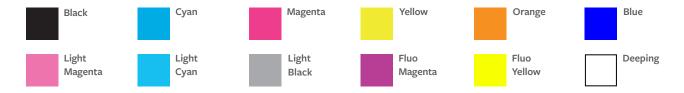
Direct printing onto the fabric, followed by colour drying and fixing (through heat press or calender) at a temperature ranging from 190-210 °C for 30-60 seconds. Direct printing allows a better penetration of the ink during the heat-fixation process.



EFI Reggiani IRIS

IRIS's extended colour gamut and high chroma guarantee stunning results for your digital textile printing.

EFI Reggiani IRIS inks are available in the following colours:



Fastness properties IRIS direct

600 dpi Colour	Dry Rubbing ISO 105–X12	Wet Rubbing ISO 105-X12	Artificial Light 100% ISO 105-B02	Chlorine Water ISO 105–E03	Dom&Com Launder 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

600 dpi Colour	Dry Rubbing ISO 105–X12	Wet Rubbing ISO 105–X12	Artificial Light 100% ISO 105–B02	Chlorine Water ISO 105–E03	Dom&Com Launder 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 fastness performances can vary according to the type substrate used in the final application.

Textile and leather chemicals. Tested and verified. www.oeko-tex.com/ecopass

Fluo Magenta and Fluo Yellow have 6 months of shelf life, all the other colours 12 months

EFI Reggiani IRIS Plus

Thanks to the finest chemistry and premium formulation, IRIS Plus inks perform astonishingly well and guarantee superior stability. Plus, this range is OEKO-TEX ECO PASSPORT certified.

EFI Reggiani IRIS Plus inks are available in the following colours:



Fastness properties

600 dpi Colour	Light Fastness ISO 105–B02 100%*	Washing 6o°C ISO 105–C06	Water ISO 105-E01	Perspiration Acid ISO 105–E04	Perspiration Alkaline ISO 105–E04	Crocking Fastness: Dry ISO 105–X12	Crocking Fastness: Wet ISO 105–X12
Black	4-5	4-5	4-5	4-5	4-5	4	5
Cyan	4	4-5	4-5	4-5	4-5	5	5
Magenta	5-6	4-5	4-5	4-5	4-5	4-5	5
Yellow	6-7	4-5	4-5	4-5	4-5	4-5	5

Samples printed on 57 g/m2 paper and transferred on not-pretreated polyester dull for fashion application in calander at 205°C for 45 seconds.

^{*}The light fastness test was performed on sample printed in transfer mode on 100% polyester, 220 g/m₂.



E21K8LYY2 Centexbel Textile and leather chemicals. Tested and verified. www.oeko-tex.com/ecopass

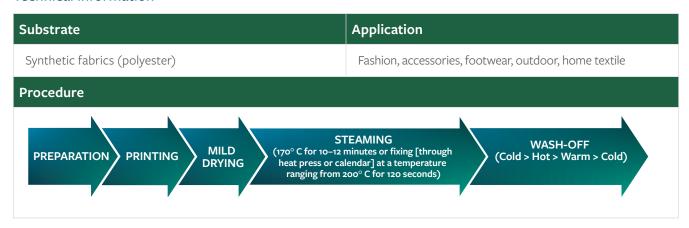
This product has achieved the ZDHC MRSL Conformance Level 3 in accordance with the ZDHC MRSL V2.0



EFI Reggiani ARIA Direct Disperse Ink

Bright, vibrant colours combined with excellent definition on your fabrics. The deepening agent allows you to achieve the desired print through optimising your output quality, while the fast drying and very good wash and light fastness properties make them the perfect solution to stand out from the competition.

Technical information



EFI Reggiani ARIA inks are available in the following colours:



Fastness properties

600 dpi Colour	Light Fastness ISO 105-B02 100%	Washing 60°C ISO 105-C06	Water ISO 105-E01	Perspiration Acid ISO 105-E04	Perspiration Alkaline ISO 105-E04	Crocking Fast- ness: Dry ISO 105-X12	Crocking Fast- ness: Wet ISO 105-X12	Chlorine Water ISO 105-E03	Sea Water ISO 105-E02
Black	4	4-5	4-5	4-5	4-5	5	5	4-5	4-5
Cyan	6	4-5	4-5	4-5	4-5	5	5	4-5	4-5
Magenta	5	4-5	4-5	4-5	4-5	4	4	4	4-5
Yellow	6	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Orange	2-3	4-5	4-5	4-5	4-5	3-4	3-4	4-5	4-5
Violet	4-5	4-5	4-5	4-5	4-5	5	5	4-5	4-5
Blue	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Grey	4-5	4-5	4-5	4-5	4-5	5	5	4	4-5

 $Please \ note that \ fastness \ performances \ can \ vary \ according \ to \ the \ type \ of \ substrate \ used \ in \ the \ final \ application.$ The fastness values have been certified by Centro Tessile Serico Spa Consortile and by ACCREDIA laboratory, Italy.19



Let's be brilliant. Together.

We understand you want breakthrough technologies to lead you through your digital journey. That's why we're passionate about driving your business growth with a scalable portfolio of products, solutions, services, support, and world-class partnerships for the manufacturing of signage, packaging, textiles, ceramic tiles, and building materials with a wide range of printers and inks. Our unwavering commitment is to increase your profits, cut costs, improve productivity, and optimise efficiency — job after job, year after year. We're obsessed with your success. And we definitely believe we have the right people, technology and experience to help your business achieve its goals. Visit www.efi.com/reggiani or call +39 035 3844511 for more information.



Nothing herein should be construed as a warranty in addition to the express warranty statement provided with EFI products and services.

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