



Athena Reactive Inks

Empower Your Vision, Print with Pride & Precision!

Athena Reactive Inks: World-Class Reactive Dye Inks Redefining the Digital Textile Printing Experience

Engineered for excellence in digital textile printing, Athena Reactive Inks deliver unmatched vibrancy, exceptional durability, and superior color precision on fabrics such as cotton, linen, and rayon. With their advanced formulation, these inks produce prints with precise color control and intricate details, making them the ultimate choice for fashion, home décor, and textile industries.

Designed to meet the highest international standards, Athena Reactive Inks boast outstanding lightfastness, wash resistance, and crock resistance, ensuring prints retain their brilliance over time. Their eco-friendly composition aligns with global safety norms, offering a sustainable solution without compromising on quality.

With a high color gamut and remarkable consistency, Athena Reactive Inks enable seamless color matching across projects. Compatible with a wide range of printheads and digital textile printers, they integrate effortlessly into existing workflows, enhancing productivity and efficiency.

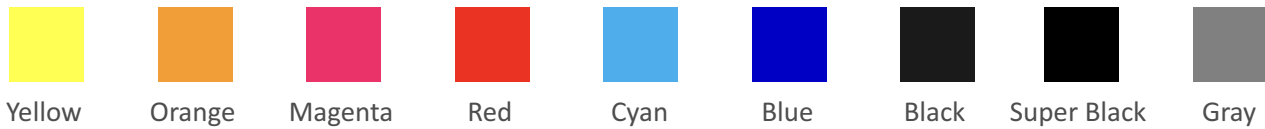
Experience the pinnacle of print quality and reliability with Athena Reactive Inks—your partner in achieving extraordinary results for every application.



Features:

- **High color density:** presenting bright and deeper color yields.
- **Customized black:** providing various shades and super deep black.
- **Excellent fastness:** formulating with pure dyes of high color fastness.
- **Excellent printability:** no nozzle clogging during printing with certified condition.
- **Excellent Shelf Stability:** Shelf life of 12 months at 10-25°C, and 8 months at 10-30°C, when stored in a cool, dark place.
- **Environment friendly:** no harmful elements existing in ink or corroding in printheads.
- **Reliable quality control:** strict quality management to ensure batch consistency.

Colors in availability:



Applicable Printheads

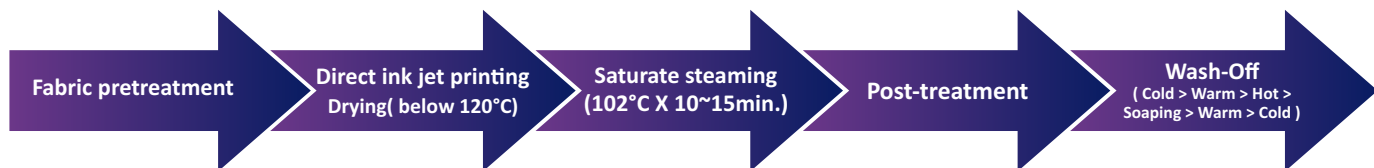
KYOCERA KJ-4B
KONICA Minolta 1024i
RICOH G5/G6
EPSON I3200

Application Substrates

Cotton
Silk
Linen
Lyocell
Viscose rayon
For all home textile and fashion

*Note: Different ink series available for different manufacturer printheads.

Application Process:



Recommended pretreatment formula for the cotton fabric:

Materials	%
Synthetic paste / Sodium alginate paste	5-15
Sodium carbonate	2-3
Sodium bicarbonate	2-3
Reduction inhibitor (e.g. Lyoprint)	1-2
Urea	6-15
Water	62-84

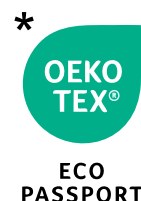
*Different Ink Series for different printheads

Fastness properties of ATHENA REACTIVE INKS (for KYOCERA KJ-4B printhead use):

Color	Cyan	Magenta	Yellow	Black	Orange	Red	Blue	Light Black
Light ISO 105-B02, 100%	5-6	4-5	5-6	5	4-5	4	5-6	5
Light ISO 105-B02, 50%	5	4-5	5	4-5	4	4	5	4-5
Water ISO 105-E01	4-5	4-5	5	5	5	5	5	5
Water 60°C ISO 105-C06	4-5	4-5	5	5	5	5	5	5
Washing ISO 105-C10	4-5	5	5	4-5	5	5	5	4-5
Perspiration Acid ISO 105-E04	4-5	4-5	5	4-5	5	4-5	5	4-5
Perspiration Alkali ISO 105-E04	4-5	4-5	5	4-5	5	4-5	5	4-5
Crocking Fastness Dry ISO 105-X12	4-5	4-5	4-5	5	4-5	5	5	5
Crocking Fastness Wet ISO 105-X12	3	3-4	3-4	3-4	3	3	3-4	4-5

**Please note that fastness ratings and ink performance in practical applications may vary depending on the type of substrate and specific usage conditions.*

Fab Nation IND.[®]
 Phone: +91-9311118191
 Email: info@fabnationind.com
 Web: www.fabnationind.com
 ISO Certificate No. : Q-707024081409



**Manufacturer Certified*

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