



MATSUI INTERNATIONAL CO. INC.

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AQUALITE COLORING SYSTEM

Chromicolor® AQ Ink / Photopia® AQ Ink / Aroma AQ Ink

GENERAL INFORMATION

This product is a water based Chromicolor®, Photopia®, or Aroma ink / paste with clear dilutant and thinners, specifically formulated to be used in the Aqualite Coloring System pigment dyeing process for cotton products.

COLOR INFORMATION

Chromicolor®

Chromicolor® changes color with temperature. The darker color (Chromicolor®) is seen when cold and the color disappears (or changes to a lighter color) when heated. There are eleven standard colors in Chromicolor® as follows:

New Fast yellow	Pink	Brilliant Green
Gold Orange	Magenta	Fast Black
Vermilion	Fast Blue	Green
	Turquoise Blue	Brown

To achieve a color to color effect, a water base pigment can be mixed with the Chromicolor® in the dyeing process.

Photopia®

Photopia® comes in three basic colors: Colorless to Purple, Colorless to Yellow and Light yellow to Blue. The colors “appear” in the sunlight or with UV light. You can achieve a color to color effect by mixing a conventional pigment into the AQ ink.

(Photopia® changes at 340 – 370 nanometers)

Aroma (scented ink)

Strawberry	Lemon	Vanilla
Peppermint	Wildflowers	Rose
Lavender	Forest	Ambrosia
Figi	Tropical Paradise	Bouquet
Apple	Orange	

PRODUCT SPECIFICATIONS

Solids, Theoretical:	Chromicolor® AQ Ink	33%
	Photopia® AQ Ink	33%
	Aroma AQ	40 – 50%
Coverage, theoretical:	35g/meter + 2.5g,	
	Based on a 120 mesh screen	
Viscosity, as shipped:	Chromicolor® AQ Ink	8,000-10,000cps @ 25 C
BH Model Viscometer	Photopia® AQ Ink	8,000-10,000cps @ 25 C
	Aroma AQ	1,000- 3,000cps @ 25 C
Specific Gravity:	Chromicolor® AQ Ink –	1.05
	Photopia® AQ Ink -	1.02
	Aroma AQ-	1.0 ± .1
Flash Point:	Chromicolor® AQ Ink	Non-combustible
	Photopia® AQ Ink	Non-combustible
	Aroma AQ	Non-combustible

MATERIALS	AMT. TO BE USED	DESCRIPTION
Fixer P	6% owf	Pre-treatment agent
Binder MR-Conc	10-15% owf	Adhesive
Chromicolor® AQ Ink	10-20% owf	Temperature sensitive colorant
Photopia® AQ Ink	10-20% owf	Light sensitive colorant
Aroma AQ Ink	8-10% owf	Scented dispersion
PG Color MI	0-2% owf	General pigment (to achieve color to color change)
Glow Color MI	0 – 5% owf	Fluorescent pigment (to achieve color to color change)

PROCESSING METHOD

Process using Rotary Drum dyeing machine or Smith Drum dyeing machine.

- Perform scouring / bleaching to fabric as needed
- Drain and add fresh water in ratio of 1:20-35
- Dilute Fixer P (50% Fixer P / 50% hot water) Add 6% owf to machine
- Raise temperature to 70°C. Keep temperature at 70°C for 15 minutes
- Drain and rinse well with cold water (about 3 minutes). Repeat if needed.
- Drain and add fresh water in ratio of 1:15-20 and raise the temperature to 70°C
- Add 15-20% owf Chromicolor® / Photopia® / Aroma AQ Ink. If color to color effect is desired up to 2% PG pigment or 5% Glow color can be added.
- Keep 70°C for 15 minutes
- Add 10-15% owf of Binder MR Conc to the AQ Ink bath. Keep 70°C for 5-10 minutes.

- Drain and rinse with cold water for about 2 minutes. Repeat as needed. Perform softening treatment if desired. Spin dry.
- Dyeing machine can be cleaned using Highclean AQ-2.

SHELF LIFE, STORAGE, SAFETY, HANDLING

Shelf life: Shelf life of unmixed ink is 6 months at a temperature of 30 C. Reducing the storage temperature to 10 C extends the shelf life to six months minimum.

Storage: Protective clothing should be worn at all times when using

Lead time: Some colors/types are kept in stock. Stock goods can ship within a day or two of order. If goods need to be produced then lead time is about 3 ½ - 4 weeks, plus shipping from Japan.