# DuPont™ Artistri® Flushing Solutions

Textile Auxiliary

## Product Datasheet

| Properties | F700 | KF200 | F800 |
|---|---|---|---|
| **Chemical Constitution** | Preparation of water soluble chemicals | Preparation of water soluble chemicals | Preparation of water soluble chemicals |
| **Ionic Character** | Anionic | Anionic | Anionic |
| **pH** | 8.0 – 9.0 | 9.0 – 9.5 | 7.5 – 9.5 |
| **Viscosity** | 1 – 2 cps@25°C | 6 – 8 cps@25°C | 6 – 8 cps@25°C |
| **Physical Form** | Colorless to light brown liquid | Colorless liquid | Colorless to light brown liquid |
| **Storage** | Storage temperature should be kept below 60°C and above 0°C. | Storage temperature should be kept below 60°C and above 0°C. | Storage temperature should be kept below 60°C and above 0°C. |
| **Shelf Life** (under recommended storage conditions) | 18 months | 18 months | 18 months |
| **Applicable Ink Chemistries** | Pigment, Disperse, Dye Sublimation, Reactive | Pigment, Disperse, Dye Sublimation, Reactive | Disperse, Dye Sublimation, Reactive, Acid |
| **Print Heads**[1] (confirmed compatibility) | Ricoh Gen 5E (MH5421/5441) Epson DX-4, DX-5, and DX-7 MS printers using Kyocera 600 dpi KJ4B printheads | Ricoh Gen 5E (MH5421/5441) Konica Minolta/Panasonic (UH-HA810 & UH-HA820) Kyocera KJ4B (excludes 600 dpi printheads on MS printers) | Kyocera KJ4B |
| **Uses**[2] | Flushing<br>Ink Change Over<br>Priming | Flushing<br>Ink Change Over<br>Priming | Flushing<br>Ink Change Over<br>Priming |
| | Light Clogs | Light Clogs | Light Clogs |
| | | | Hard Clogs[3] |

[1] Consult your sales person for questions regarding additional printheads

[2] Refer to the *DuPont™ Artistri® Ink Conversion Procedure* in the next page

[3] Refer to the *DuPont™ Artistri® XITE F800 Cleaning Procedure*

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This general procedure is based on field experience by DuPont. It is not suggested to replace the OEM's procedure, but rather to be used in addition to the OEM's instructions as a good practice for avoiding cross-contamination during ink changeovers.

## Ink Conversion Procedure

Be sure to monitor waste tank throughout the process to avoid overflow.

**1. Required components for conversion:**

a. New filters are necessary.
b. Incumbent flushing solution.
c. Adequate quantity of Dupont Flushing Solution per channel. Flushing solution can be obtained through DuPont.
d. Aqueous DuPont™ Artistri® Ink.

**2. Steps to remove existing ink and change filters:**

a. Perform a last nozzle check on paper with the incumbent ink before starting the ink changeover process. Keep that handy for future reference.
b. Remove incumbent ink.
c. Install incumbent flushing solution.
d. Run fill/flush/clean cycle on printer until ink being discharged from head is semitransparent.
e. Remove incumbent flushing solution from the tanks.
f. Install deionized water and run fill/flush/clean cycles to displace the flushing solution as much as possible. These steps further reduce the concentration of active components in case there is a compatibility issue between the incumbent and DuPont™ Artistri® Ink.
g. Install DuPont Flushing Solution.
h. Replace filters (necessary).
i. Clean the maintenance station of any remnants of the incumbent ink to avoid contaminating the new ink.
j. Replace the water/capping solution with fresh supply.
k. If your printer has a wiper, make sure you clean or replace the wiper blade to avoid contamination of the new ink at the nozzleplate.
l. Continue running fill cycle until head discharge has very little color.
m. Remove air from filters as much as possible to ensure proper function of the filters.
n. After flush is completed, continue running the fill cycle with the remaining flush, to ensure the system is as clean as possible.

**3. Steps to introduce new ink to the printer:**

a. Remove DuPont Flushing Solution from bulk feed.
b. Install new DuPont™ Artistri® Ink.
c. Run fill cycle until ink discharged from head is back to its normal color strength.
d. Run multiple cleaning cycles to fully prime the print heads.
e. Perform a nozzle check on paper to ensure all nozzles are in.

### Tips

- Missing nozzles after an ink changeover should come back with time. It is best practice to perform multiple purges and let the new ink sit overnight so that air is removed from the system.
- Initial jetting sustainability may be poor as air works its way out of the system. This can be overcome by printing at slower speeds before ramping up to normal printing speeds.
- Severe starvation may be a symptom of restricted flow through the last chance filters. Additional replacement of the last chance filters may be required.
- Do not over-exercise the print heads if you observe starvation symptoms as this will affect the life of the print head.
- After the DuPont™ Artistri® Inks have been successfully installed, select the proper waveform for printing and complete system linearization and color profile creation steps for the new inks. This will ensure correct color rendering with the new ink set.

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For more information on DuPont™ Artistri® or other DuPont products, please visit our website.

**Artistri.DuPont.com**



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