

# EC SERIES - RUTLAND PROCESS INKS


**Rutland™**

Rutland CMYK process inks allow you to simulate 4 color process printing on light color garments with great vibrancy and accuracy.

## Highlights

- Transparent, intense primary colors designed especially for 4-color process printing.
- Bright primaries for maximum color range.
- Prints through a variety of mesh counts which decrease the need to print spot colors for brightness.
- Match color key fast with these pure pigments.
- The pigments for the EC series have been carefully selected for purity and brightness.

## Compliance

- Internationally compliant
- Non-phthalate
- <https://www.avientspecialtyinks.com/services/compliance-support>

## Precautions

- The information above is given in good faith and does not release you from testing inks and fabrics to confirm suitability of substrate and application process to meet your customer standards and specifications.

## Printing Tips

- For CMYK profiles go to: <https://www.avientspecialtyinks.com/sites/default/files/2020-06/photoshop-values-manual-edit.pdf>
- Supply the color separator with printed strike offs of each primary printed through the mesh selected for the production run for more accurate color reproduction from the film positives.
- Improved printing techniques will offer maximum color saturation and ink penetration into the fibers with the least amount of dot gain.
- Set machine pressure for maximum penetration. Print the single colors separately and then in 2 or 3 color combinations. Compare each to the color key.
- Not recommended for printing on dark fabrics.
- Note: Should the yellow appear too strong, (reds, greens, and browns, are too yellow) extend with MC0125 Process extender base. Print the cyan and magenta full strength.
- PRODUCTS: EC0125 Process Extender Base EC2042 Process Cyan EC4026 Process Yellow EC6039 Process Magenta EC8002 Process Black EC9030 Process White

## Recommended Parameters

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|  <b>Fabric Types</b><br>Cotton                                                                            |  <b>Flash &amp; Cure</b><br>Flash: 140-150°F on pre-heated pallets<br>Cure: 320°F |  <b>Clean Up</b><br>Unused ink will need to be disposed of responsibly. Standard plastisol cleaners, press wash, or ink degradant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|  <b>Mesh</b><br>Counts: 305-355<br>Tension: 18n-25n/cm3                                                   |  <b>Pigment Loading</b><br>N/A                                                    |  <b>Health &amp; Safety</b><br>Find SDS information here:<br><a href="http://www.avient.com/resources/safety-data-sheets">www.avient.com/resources/safety-data-sheets</a> or contact your local CSR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|  <b>Squeegee</b><br>70, 70/90/70<br>Profile: Square<br>Stroke: 1<br>Angle: 10-15%                         |  <b>Additives</b><br>EC0125 Process Extender Base                                 | <p>2021, Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Avient makes no warranties or guarantees respecting suitability of either Avient's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. AVIENT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.</p> |
|  <b>Stencil</b><br>Standard Emulsion<br>Off Contact: 1/16" (2mm) or greater<br>Emulsion Over Mesh: 15-20% |  <b>Storage</b><br>65 -95° F (18 -35° C) Avoid direct sunlight                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                           | AVIENT<br>SPECIALTY<br>INKS                                                                                                                                          | V3.03 (Modified: 03/11/2021)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |