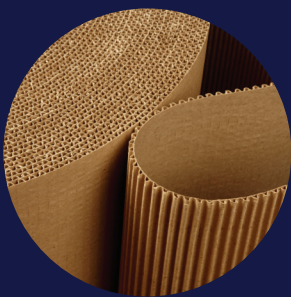


# BASIC DYESTUFF



## Verona®

Papermaking is constantly evolving. Paper-machine grades change and manufacturing methods are continually being improved for speed, cost, efficiency and performance. Practices considered experimental yesterday are standard operating procedure today. The only certainty in today's marketplace is that it is changing – continuously.

To maintain a competitive advantage in this environment, papermaker must react quickly to the latest challenges, whether they come from the competition or from the most recent environmental regulations. ChromaScape understands this and is ready to help you respond to these challenges. We innovate together with our customers for sustainable solutions where water meets chemistry.

ChromaScape's Paper segment is dedicated to providing a wide selection of products of the highest quality, in an easy-to-use form. ChromaScape products are available in a variety of container types to meet your requirements. Our commitment does not end once your order is shipped. We back our colorants and chemicals with global papermaking expertise. Our sales, technical and service groups are staffed with knowledgeable, skilled, and experienced professionals who can provide solutions tailored to your specific applications.










Our cornerstone as a leading, global paper industry supplier of chemicals and colorants is innovative and on-going technical support by expertly trained and experienced staff coupled with a comprehensive product portfolio. ChromaScape Paper also conducts product application and technical training for mill personnel either at your site or in our technical centers. Please contact a ChromaScape representative for more information regarding training opportunities.

### ChromaScape Verona Basic Dyes

Verona basic dyes are cationic in nature and among the most widely used colorants for paper and board produced with lignin containing fiber including unbleached or semi-bleached groundwood, thermomechanical and recycled liner pulps. These dyes also find extensive use in more specialized paper grades with bleached sulfite or bleached Kraft pulp such as brilliant high-chroma and fluorescent printing, writing, and decorative tissue papers. These products may be applied in the wet-end, size-press or waterbox. Coating application is limited due to the low pH and cationic characteristics of these colorants. Verona® basic dyes are an excellent value for the papermaker due to their high color strength and cost effectiveness.

ChromaScape offers a wide range of Verona® basic dyes in concentrated easy-to-handle liquid form, in a variety of shipping containers to suit your needs including drums, totes and tank trucks with up to five compartmentalized sections. These liquids can be used directly as received or diluted for batch addition and/or continuous coloring. To maintain solubility, dilute solutions of basic dyes should be prepared by addition into acidified dilution water. Effective organic acids for this purpose include acetic and lactic acid. Please contact your ChromaScape paper sales representative for help solving your challenge.

| lbs/ton | Description                     | Shade | Ionic Character | Fiber Affinity | Light Fastness | Bleachability | Two Sidedness | FDA/ Pre 58 | Specific Gravity | pH   |
|---------|---------------------------------|-------|-----------------|----------------|----------------|---------------|---------------|-------------|------------------|------|
| 40      | Verona Basic Yellow 4GN LQ 125% |       | Cationic        | Poor/Fair      | Poor           | Fair          | Top           | Yes         | 1.1              | ~2.0 |
| 40      | Verona Chrysoidine GN LQ        |       | Cationic        | Poor/Fair      | Poor           | Fair          | Top           | Yes         | 1.2              | ~3.0 |
| 40      | Verona Basic Orange G LQ        |       | Cationic        | Poor/Fair      | Poor           | Fair          | Top           | Yes         | 1.1              | ~3.0 |
| 40      | Verona Basic Brown HS LQ        |       | Cationic        | Poor/Fair      | Poor           | Poor          | Top           | Yes         | 1.11             | ~3.0 |
| 40      | Verona Basic Brown R LQ         |       | Cationic        | Poor/Fair      | Poor           | Poor          | Top           | Yes         | 1.1              | ~3.1 |
| 40      | Verona Basic Brown Y LVOC LQ    |       | Cationic        | Poor/Fair      | Poor           | Poor          | Top           | Yes         | 1.09             | ~3.0 |
| 40      | Verona Basic Brown 4R LQ        |       | Cationic        | Poor/Fair      | Poor           | Good          | Top           | Yes         | 1.1              | ~3.0 |

| lbs/ton | Description                 | Shade  | Ionic Character | Fiber Affinity | Light Fastness | Bleachability | Two Sidedness | FDA/ Pre 58 | Specific Gravity | pH   |
|---------|-----------------------------|--|-----------------|----------------|----------------|---------------|---------------|-------------|------------------|------|
| 40      | Verona Basic Red 4G LQ 200% |   | Cationic        | Poor/Fair      | Poor           | Good          | Top           | Yes         | 1.1              | ~3.0 |
| 40      | Verona Basic Red P LQ       |   | Cationic        | Poor/Fair      | Poor           | Fair          | Top           | Yes         | 1.1              | ~3.0 |
| 40      | Verona Basic Red 4B LQ 02   |   | Cationic        | Poor/Fair      | Poor           | Fair          | Top           | Yes         | 1.09             | ~2.0 |
| 40      | Verona Rhodamine B LQ       |   | Cationic        | Poor/Fair      | Poor           | Fair          | Top           | No          | 1.1              | ~3.2 |
| 40      | Verona Blue GS LQ           |   | Cationic        | Poor/Fair      | Poor           | Fair          | Top           | No          | 1.1              | ~2.8 |
| 40      | Verona Basic Violet M LQ    |   | Cationic        | Poor/Fair      | Poor           | Fair          | Top           | No          | 1.09             | ~3.5 |
| 40      | Verona Basic Blue R Liquid  |   | Cationic        | Poor/Fair      | Poor           | Fair          | Top           | Yes         | 1.11             | ~2.5 |
| 40      | Verona Basic Blue GE LQ     |   | Cationic        | Poor/Fair      | Poor           | Fair          | Top           | No          | 1.06             | ~2.0 |
| 40      | Verona Basic Green M LQ     |   | Cationic        | Poor/Fair      | Poor           | Fair          | Top           | Yes         | 1.07             | ~2.0 |
| 40      | Verona Black S LQ           |  | Cationic        | Poor/Fair      | Poor           | Poor          | Top           | Yes         | 1.12             | ~3.0 |

Legal Disclaimer: We do not guarantee performance and the user should perform their own testing to assess suitability in their application. User assumes all other risk and liability resulting from use of this product. No claims, representations or warranties, whether express or implied, are made by our company as to the safety, reliability, durability and performance of any of our company's products. In no event shall our company be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of our products.



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