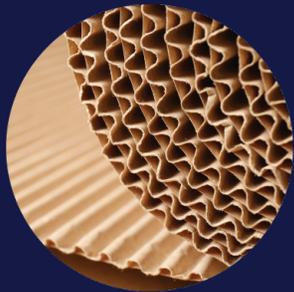




ELCO Colorants & Additives



Direct Liquid Dyes

For over 23 years, ChromaScape has led the industry in supplying the highest quality colorants and chemicals to the paper industry. Our network for global sourcing allows us to address marketplace challenges that demand new solutions which focus on ways to optimize paper coloring techniques. ChromaScape is focused on supplying our paper customers the highest quality products at cost effective pricing.

To survive in today's competitive marketplace our commitment does not end when your order is shipped. We back up all of our products with know-how. Whether it is product testing, shade matching, application expertise, color training or product development, ChromaScape is ready to serve you. Our sales force and our laboratories are staffed with experienced technical professionals who can assist with any technical problem our paper customers may experience today.

We offer seminars and training sessions for mill personnel either at your site or in our manufacturing facility located in Greenville, South Carolina.

Colorant Selection Process and Application

No matter what the requirement, ChromaScape will be happy to evaluate your particular color application. Our technical staff will guide you through color selection, shade matching and physical testing criteria. We can assist in any process application from batch or continuous coloring to automated size press color correction. Whether you are tinting whites or deep dyeing tissue, ChromaScape has the experience to service and supply any colorant approach for paper.

Direct Liquid Dyes

ChromoScape offers a full range of liquid direct dyes that compliment our comprehensive powder line. Our liquid dyes are used in virtually all areas of paper manufacturing due to their physical form, ease of handling, elimination of dusting and suitability for systems with on-line color control.



| lbs/ton | Description | Shade | Ionic Character | Fiber Affinity | Light Fastness | Bleach-ability | Bleed-fastness | Two Sideness | FDA/ Pre 58 Comp | Specific Gravity | pH |
|---------|------------------------------|-------|-----------------|----------------|----------------|----------------|----------------|--------------|------------------|------------------|----------|
| 20 | Elcomine Stilbene Yellow G-L | | Anionic | Good | Good | Very Poor | Very Good | Top/Even | Yes | 1.10 | 8.0-9.0 |
| 20 | Elcomine Yellow 4G-L | | Anionic | Good | Good | Good | Very Good | Even | Yes | 1.06 | 7.5-8.5 |
| 20 | Elcomine Yellow 3G-L | | Anionic | Good | Good | Good | Fair/Good | Even/Bottom | No | 1.10 | 9.0-10.0 |
| 20 | Elcomine Br. Yellow 5G-L | | Anionic | Good | Good | Very Good | Fair | Even/Bottom | No | 1.06 | 7.5-8.5 |
| 20 | Elcomine Yellow RB-L | | Anionic | Good | Good/Very Good | Excellent | Poor | Even/Bottom | No | 1.06 | 7.0-8.0 |
| 20 | Elcomine Flavine 6G-L | | Anionic | Good | Poor | Good | Fair | Even/Bottom | No | 1.08 | 6.0-7.0 |
| 20 | Elcomine Yellow LR-L | | Anionic | Good | Very Good | Very Good | Fair | Even/Bottom | No | 1.06 | 7.0-8.0 |
| 20 | Elcomine Orange 5R-L | | Anionic | Good | Good | Poor | Very Good | Even | Yes | 1.06 | 7.0-8.0 |
| 20 | Elcomine Orange W-L | | Anionic | Good | Good | Good/Very Good | Good | Even | Yes | 1.06 | 7.0-8.0 |
| 20 | Elcomine Orange 2RF-L | | Anionic | Good | Good | Very Good | Good | Even | No | 1.06 | 4.5-5.5 |
| 20 | Elcomine Red 8B-L | | Anionic | Excellent | Good | Fair/Good | Fair/Good | Even/Bottom | Yes | 1.10 | 6.0-7.0 |
| 20 | Elcomine Scarlet 4B-L | | Anionic | Excellent | Good | Excellent | Excellent | Even | No | 1.08 | 7.0-8.0 |
| 20 | Elcomine Red 9B-L | | Anionic | Good | Good | Excellent | Good | Even/Bottom | No | 1.08 | 8.0-9.0 |
| 50 | Elcomine Red 4GE-L | | Anionic | Poor | Fair | Excellent | Excellent | Even | No | 1.10 | 8.0-9.0 |

| lbs/ton | Description | Shade | Ionic Character | Fiber Affinity | Light Fastness | Bleach-ability | Bleed-fastness | Two Sideness | FDA/ Pre 58 Comp | Specific Gravity | pH |
|---------|-------------------------|-------|-----------------|----------------|----------------|----------------|----------------|--------------|------------------|------------------|----------|
| 20 | Elcomine Violet B-L | ● | Anionic | Very Good | Good | Very Good | Very Good | Even | Yes | 1.06 | 7.0-8.0 |
| 20 | Elcomine Violet 5BF-L | ● | Anionic | Very Good | Good | Good | Excellent | Even | No | 1.10 | 9.0-10.0 |
| 20 | Elcomine Blue 3R-L | ● | Anionic | Good | Excellent | Poor | Fair | Top/Even | Yes | 1.10 | 9.0-10.0 |
| 20 | Elcomine Turquoise GP-L | ● | Anionic | Poor | Good | Fair/Good | Very Good | Top | No | 1.09 | 9.0-10.0 |
| 20 | Elcomine Turquoise A-L | ● | Anionic | Poor | Very Good | Excellent | Excellent | Top | No | 1.10 | 8.0-9.0 |
| 20 | Elcomine Bond Blue B-L | ● | Anionic | Good | Excellent | Excellent | Very Good | Even | No | 1.08 | 9.0-10.0 |
| 20 | Elcomine Blue GDF-L | ● | Anionic | Very Good | Good | Very Good | Very Good | Top | No | 1.10 | 9.0-10.0 |
| 20 | Elcomine Blue SPN-L | ● | Anionic | Good | Fair | Excellent | Fair | Even | No | 1.10 | 8.0-9.0 |
| 20 | Elcomine Blue BTS-L | ● | Anionic | Good | Fair/Good | Excellent | Good | Top | No | 1.10 | 8.0-9.0 |
| 50 | Elcomine Black GW-L | ● | Anionic | Good | Very Good | Good | Excellent | Top/Even | No | 1.09 | 8.0-9.0 |
| 50 | Elcomine Black SMW-L | ● | Anionic | Good | Good | Good | Excellent | Top/Even | No | 1.09 | 8.0-9.0 |
| 50 | Elcomine Black LF Liq | ● | Anionic | Good | Good | Good | Excellent | Top/Even | No | 1.09 | 8.0-9.0 |
| 50 | Elcomine Black 81-L | ● | Anionic | Good | Fair | Good | Fair | Top/Even | No | 1.09 | 8.0-9.0 |
| 50 | Elcomine Black FP-L | ● | Anionic | Good | Good | Good | Excellent | Top/Even | Yes | 1.09 | 8.0-9.0 |
| 50 | Elcomine Black ESE-L | ● | Anionic | Good | Good | Good | Excellent | Top/Even | No | 1.09 | 8.0-9.0 |

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.



CHROMASCAPE

service@chromascope.com

chromascope.com

Phone 888.421.0010

02/22