



Since 2005

Paper Coloring Agent Data Sheets

11 CHEMSUM grades. Paper coloring agents provide vivid, uniform, and lasting shades for paper and paperboard. Our range includes basic, direct, and acid dyes for diverse papermaking needs.

CHEMSUM supplies the wet-end and surface chemistry a paper mill runs on - AKD and rosin sizing, basic and direct dyes, dry and wet strength resins, retention and drainage aids, oil-proof barriers and water treatment polymers.

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Figures that the company has not published — cumulative export tonnage, number of export countries, satisfaction rate and certificate numbers — are deliberately omitted from this document. Ask the technical desk for current documentation.

Paper Coloring Agent

The problem. Shade drift between batches is the complaint that reaches the mill's customer, not the mill. Mechanical pulp and chemical pulp take dye differently, and a dye chosen for the wrong furnish bleeds into white water instead of fixing on fibre.

The range. Eleven dyes across two chemistries: cationic basic dyes with strong affinity for lignin-containing mechanical and semi-chemical pulp, and anionic direct dyes matched to cellulose furnish - both compatible with standard retention and fixing systems.

Basic Black Dyes

Basic Black Dyes – Deep, Uniform, and Brilliant Coloration for Paper

Basic Black Dyes are high-strength cationic dyes specially formulated for the coloration of paper and paperboard. With excellent affinity to lignin-containing pulp and mechanical pulp, they provide deep black shade, strong tinting strength, and good color uniformity, making them ideal for producing high-quality black and gray papers.

These dyes are fully soluble in water and offer stable performance under a wide pH range. They exhibit excellent lightfastness, high dyeing intensity, and good compatibility with other cationic dyes and retention systems, ensuring efficient and consistent color development on paper machines.



Key features and advantages

- Brilliant deep black shade with high coloring strength
- Excellent affinity for mechanical and semi-chemical pulp
- Good solubility and easy handling in papermaking systems
- Stable performance with wide pH and temperature tolerance
- Compatible with cationic retention aids and fixing agents

Applications

- Coloring of paper and paperboard
- Production of decorative, packaging, and tissue papers
- Suitable for both batch and continuous dyeing systems

Packing. Liquid grades ship in IBC totes carrying net weight, gross weight, lot number, production date and expiry date on the label. Exact pack sizes and drum options are confirmed on quotation.

Basic Brown Dyes

Basic Brown Dyes – Warm, Uniform, and Stable Shade for Paper Coloring

Basic Brown Dyes are cationic dyes specifically formulated for paper coloration, offering rich brown shades with excellent brightness, uniformity, and fastness. They have strong affinity for lignin-containing pulps such as mechanical and semi-chemical pulps, ensuring efficient dye fixation and high color strength during papermaking.

These dyes are fully water-soluble and easy to apply in both batch and continuous systems. With stable performance under neutral and mildly alkaline conditions, Basic Brown Dyes provide reliable coloration results with minimal shade variation and good compatibility with retention and fixing agents.



Key features and advantages

- Deep, warm brown tone with excellent color uniformity
- High affinity and strong dyeing power for mechanical pulp
- Good water solubility and easy application
- Stable shade and strong resistance to fading
- Compatible with cationic auxiliaries and retention systems

Applications

- Coloring of packaging paper, tissue paper, and decorative paper
- Ideal for kraft imitation paper, board, and specialty grades
- Suitable for both continuous dyeing and size press applications

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Basic Green Dyes

Basic Green Dyes – Bright, Stable, and Vivid Coloration for Paper

Basic Green Dyes are high-brightness cationic dyes specially developed for paper and paperboard coloration. They provide brilliant green shades, strong coloring power, and excellent levelness, making them ideal for producing high-quality colored papers with vibrant appearance and consistent tone.

These dyes show excellent affinity to lignin-containing pulps such as mechanical and semi-chemical pulp, ensuring high dye retention and uniform coloration. With good solubility and stability under neutral and mildly alkaline conditions, Basic Green Dyes offer reliable performance across different papermaking systems.



Key features and advantages

- Brilliant and vivid green shade with high color strength
- Excellent affinity and fast dye uptake for mechanical pulp
- Uniform and stable coloration with good levelness
- High solubility and compatibility with cationic retention aids
- Reliable performance under neutral and alkaline papermaking conditions

Applications

- Coloring of printing and decorative papers
- Ideal for tissue, packaging, and specialty papers
- Suitable for both continuous and batch dyeing processes

Packing. Liquid grades ship in IBC totes carrying net weight, gross weight, lot number, production date and expiry date on the label. Exact pack sizes and drum options are confirmed on quotation.

Basic Red Dyes

Basic Red Dyes – Brilliant, Uniform, and High-Strength Red Shades for Paper

Basic Red Dyes are high-performance cationic dyes designed for paper coloration under neutral and mildly alkaline papermaking conditions. They produce bright, vivid red shades with excellent color uniformity and strong affinity for mechanical, semi-chemical, and recycled pulps.

With outstanding dyeing strength, solubility, and stability, Basic Red Dyes ensure even color distribution and reliable shade control on high-speed paper machines. They are fully compatible with cationic retention systems, helping papermakers achieve consistent and cost-effective coloration results.



Key features and advantages

- Brilliant and uniform red shade with excellent brightness
- High coloring strength and good lightfastness
- Strong affinity for lignin-containing pulp
- Excellent solubility and process stability
- Compatible with cationic fixatives and retention aids

Applications

- Coloring of decorative, tissue, and packaging paper
- Suitable for printing and writing paper
- Ideal for both batch and continuous dyeing systems

Packing. Liquid grades ship in IBC totes carrying net weight, gross weight, lot number, production date and expiry date on the label. Exact pack sizes and drum options are confirmed on quotation.

Basic Violet Dyes

Basic Violet Dyes – Vivid, Uniform, and High-Performance Coloring for Paper

Basic Violet Dyes are cationic dyes specially formulated for paper and paperboard coloration, delivering bright, consistent violet shades with excellent color uniformity and tinting strength. They exhibit strong affinity for lignin-containing pulps such as mechanical and semi-chemical pulps, ensuring efficient dye fixation and even color distribution.

These dyes are fully water-soluble, easy to handle, and stable under neutral and mildly alkaline papermaking conditions. Their reliable performance makes them ideal for producing high-quality colored papers with excellent brightness, fastness, and visual appeal.



Key features and advantages

- Brilliant and uniform violet shade with high tinting strength
- Strong affinity for mechanical and semi-chemical pulp
- Excellent solubility and process stability
- Consistent coloration with minimal shade variation
- Compatible with cationic retention aids and fixing agents

Applications

- Coloring of decorative paper, printing paper, and specialty grades
- Suitable for tissue, packaging, and writing papers
- Effective for both continuous and batch dyeing processes

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Basic Yellow Dyes

Basic Yellow Dyes – Bright, Stable, and High-Tinting Strength for Paper Coloring

Basic Yellow Dyes are high-brightness cationic dyes developed for paper and paperboard coloration. They provide vivid yellow shades with excellent color uniformity, high coloring strength, and strong affinity to mechanical and semi-chemical pulps. These dyes are ideal for achieving brilliant and consistent yellow tones in various paper grades.

With good solubility, stable performance, and strong retention, Basic Yellow Dyes ensure smooth operation on modern paper machines and uniform color distribution throughout the sheet. They are compatible with cationic retention aids and fixatives, making them suitable for continuous papermaking systems.



Key features and advantages

- Bright, pure yellow shade with high coloring intensity
- Excellent affinity for lignin-containing pulp
- Good solubility and stable dyeing performance
- Uniform shade and excellent color fastness
- Compatible with cationic retention and fixing agents

Applications

- Coloring of decorative, packaging, and specialty papers
- Ideal for tissue, kraft imitation, and printing papers
- Suitable for both continuous and batch dyeing processes

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Direct Black Dyes

Direct Black Dyes – Deep, Uniform, and Cost-Effective Coloring for Paper

Direct Black Dyes are high-performance anionic dyes widely used in paper coloration, offering deep black shades, excellent penetration, and uniform coloring. They are especially suitable for cellulose fiber-based pulps, providing strong affinity and easy application in both continuous and batch dyeing systems.

With good solubility, stable shade, and high color yield, Direct Black Dyes deliver consistent results under neutral and slightly alkaline papermaking conditions. They are also compatible with retention aids and fixing agents, ensuring efficient dye retention and reduced color loss in white water systems.



Key features and advantages

- Deep and uniform black shade with strong tinting strength
- Excellent solubility and easy to use in papermaking systems
- Stable color performance under various pH conditions
- Cost-effective solution with good retention efficiency
- Compatible with anionic and cationic papermaking additives

Applications

- Coloring of packaging paper, kraft paper, and decorative paper
- Suitable for tissue and printing papers requiring deep shades
- Applicable in both batch and continuous dyeing operations

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Direct Brown Dyes

Direct Brown Dyes – Warm, Uniform, and Cost-Effective Brown Shades for Paper

Direct Brown Dyes are high-quality anionic dyes specifically designed for paper coloration. They produce rich brown shades with excellent color uniformity, good solubility, and strong fiber affinity, making them ideal for various paper grades such as packaging, kraft, and decorative papers.

These dyes exhibit stable shade, high dyeing strength, and reliable performance under neutral and slightly alkaline papermaking conditions. With excellent compatibility with retention and fixing systems, Direct Brown Dyes ensure consistent color tone, good lightfastness, and minimal bleeding.



Key features and advantages

- Warm and uniform brown shade with strong coloring power
- Excellent solubility and easy operation in paper machines
- Stable performance under neutral and alkaline conditions
- High affinity for cellulose fiber and good retention efficiency
- Cost-effective solution with consistent color results

Applications

- Coloring of packaging, kraft, and decorative papers
- Suitable for cultural and tissue papers requiring brown tones
- Applicable in both batch and continuous dyeing systems

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Direct Orange Dyes

Direct Orange Dyes – Bright, Uniform, and Reliable Coloring for Paper

Direct Orange Dyes are water-soluble anionic dyes formulated for paper coloration, offering bright orange shades with excellent uniformity, good solubility, and high color yield. They show strong affinity for cellulose fibers, ensuring stable and consistent dyeing performance in both continuous and batch papermaking systems.

With excellent shade stability, good levelness, and strong retention, Direct Orange Dyes help papermakers achieve vivid color effects while maintaining production efficiency. They perform reliably under neutral and slightly alkaline conditions and are compatible with commonly used retention and fixing agents.



Key features and advantages

- Bright and vivid orange shade with high coloring strength
- Excellent solubility and even color distribution
- Stable performance under neutral and alkaline papermaking conditions
- Strong affinity for cellulose fiber with high retention rate
- Cost-effective and easy to handle in paper systems

Applications

- Coloring of decorative, packaging, and cultural papers
- Suitable for kraft, printing, and specialty papers
- Applicable in both batch and continuous dyeing processes

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Direct Red Dyes

Direct Red Dyes – Vivid Red Shades for High-Quality Paper Coloring

Direct Red Dyes are high-performance, water-soluble anionic dyes designed for the coloration of paper and paperboard. They provide brilliant red shades with excellent brightness, uniformity, and fiber affinity, making them ideal for achieving strong and consistent color effects across various paper grades.

These dyes dissolve easily in water and deliver stable shade and high color yield under neutral or slightly alkaline conditions. Their good retention on cellulose fibers ensures efficient use of dye and reduces waste, making them both cost-effective and environmentally friendly.



Key features and advantages

- Bright, vivid red tone with superior color strength
- Excellent solubility and even color distribution
- Stable shade and good fastness under normal papermaking conditions
- High affinity and retention on cellulose fiber
- Compatible with common retention and fixing systems

Applications

- Ideal for coloring writing, printing, and decorative papers
- Suitable for packaging paper, kraft paper, and tissue paper
- Works effectively in both continuous and batch dyeing processes

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Direct Yellow Dyes

Direct Yellow Dyes – Bright Yellow Shades for High-Performance Paper Coloring

Direct Yellow Dyes are water-soluble anionic dyes specially formulated for paper and paperboard coloration. They deliver bright, clean yellow shades with excellent color uniformity, high strength, and superior fiber affinity, making them ideal for a wide range of papermaking applications.

These dyes exhibit excellent solubility and stability in neutral and slightly alkaline conditions, ensuring consistent shade and smooth dyeing performance. With good retention on cellulose fibers, they offer both high coloring efficiency and cost savings, while maintaining environmental friendliness in the production process.



Key features and advantages

- Brilliant yellow tone with excellent brightness and clarity
- High solubility and stable performance in papermaking systems
- Good fastness and color consistency
- Strong fiber affinity ensures efficient dye utilization
- Compatible with various retention and fixing agents

Applications

- Widely used in the production of writing and printing paper
- Suitable for packaging, tissue, and decorative papers
- Works effectively in both continuous and batch paper coloring systems

Packing. Liquid grades ship in IBC totes carrying net weight, gross weight, lot number, production date and expiry date on the label. Exact pack sizes and drum options are confirmed on quotation.