



Since 2005

Paper Functional Agent Data Sheets

4 CHEMSUM grades. Paper Functional Agents are essential chemical additives designed to improve the overall performance, appearance, and processing efficiency of paper and paperboard products.

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 Functional Agent

The problem. Fines, fillers and dye that leave with the white water are money going down the drain, and they take sheet uniformity and drainage rate with them.

The range. Retention and drainage aids, cationic fixing agents, polyamine and optical brighteners - the wet-end additives that keep expensive inputs in the sheet and the machine running at speed.

Fixing Agent

Fixing Agent – Enhance Pigment and Additive Retention in Papermaking

Fixing Agents are specialized papermaking chemicals designed to improve the retention of pigments, dyes, and other additives during paper production. By promoting stronger binding between fibers and additives, fixing agents help reduce chemical loss, improve paper uniformity, and enhance the overall quality of the final product.

Our fixing agents are cationic polymers with high affinity for anionic dyes, pigments, and fillers. They provide excellent stability, high efficiency, and compatibility with various pulp types and papermaking systems. These agents are easy to handle, water-soluble, and effective even at low dosages.



Key features and advantages

- Improves retention of pigments, dyes, and fillers
- Enhances paper uniformity and surface quality
- High efficiency with low dosage requirements
- Compatible with a wide range of papermaking additives
- Reduces chemical waste and optimizes production cost

Applications

- Retention of dyes and pigments in colored papers
- Enhancing filler retention in printing and packaging papers
- Improves performance of coated and specialty papers
- Suitable for both neutral and alkaline papermaking 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.

Optical Brightener Agents

Optical Brightener Agents – Enhance Paper Brightness and Visual Appeal

Optical Brightener Agents (OBAs) are specialized chemicals used to improve the brightness and whiteness of paper by absorbing ultraviolet light and re-emitting it as visible blue light. They help paper achieve a crisp, clean, and visually appealing appearance without affecting the strength or printability.

Our optical brighteners are formulated for high stability, excellent compatibility, and efficient dispersion, ensuring consistent brightness and performance across different pulp types and papermaking systems. They are effective in both coated and uncoated papers and can be used in neutral and alkaline processes.



Key features and advantages

- Significantly enhances paper brightness and whiteness
- Improves visual appeal without compromising strength
- High stability and easy dispersion in papermaking systems
- Compatible with various pulps, fillers, and papermaking chemicals
- Suitable for both coated and uncoated paper grades

Applications

- Printing and writing papers
- Packaging and decorative papers
- Tissue and specialty papers
- Board papers requiring enhanced whiteness and brightness

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Polyamine

Polyamine – Efficient Retention, Drainage, and Wet-Strength Aid for Papermaking

Polyamine is a highly cationic polymer used in papermaking to enhance retention, drainage, and wet-strength performance. It effectively binds anionic fines, fillers, and dyes to fibers, improving paper uniformity, reducing chemical loss, and enhancing overall production efficiency.

Our polyamine products offer high cationic charge density, excellent solubility, and stable performance under a wide range of pH and temperature conditions. They are compatible with various pulps, wet-end additives, and other retention or fixing agents, providing reliable and consistent results for modern paper machines.



Key features and advantages

- Improves retention of fines, fillers, dyes, and pigments
- Enhances drainage and reduces water usage
- Boosts wet-strength and paper durability
- High solubility, stable performance, and easy handling
- Compatible with multiple papermaking systems and chemicals

Applications

- Retention and drainage aids in printing, writing, and packaging papers
- Enhancing wet-strength in tissue, towel, and specialty papers
- Used in combination with other cationic polymers for improved performance
- Suitable for both continuous and batch papermaking systems

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Retention and Drainage Aid

Retention and Drainage Aid – Improve Paper Formation and Production Efficiency

Retention and Drainage Aids are essential papermaking chemicals designed to enhance the retention of fines, fillers, and chemicals while improving water removal efficiency during sheet formation. By optimizing fiber bonding and drainage, they help produce more uniform paper with higher strength and better runnability on the paper machine.

Our retention and drainage aids are formulated from high-efficiency cationic or anionic polymers, ensuring superior performance under a wide range of papermaking conditions. They are compatible with various pulp types and wet-end additives, delivering stable results and reduced chemical consumption.



Key features and advantages

- Improves retention of fines, fillers, and pigments
- Enhances drainage rate and paper machine productivity
- Promotes uniform fiber distribution and better sheet formation
- Compatible with multiple papermaking systems and additives
- Reduces chemical loss and production cost

Applications

- Printing and writing paper
- Packaging paper and board
- Tissue and specialty papers
- Suitable for high-speed paper machines and closed water systems

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