

CHEMICAL IP

CHEMISTRY / SYSTEMS / SCALE

MARKETS SERVED / PAPER

Pulp & Paper

Retention, drainage, charge control, and wastewater chemistry.

Tune polymer architecture and form for the wet end and the water loop.





PULP & PAPER / 01

Polymer systems for paper

Acrylic monomer and coagulant integration allows charge and molecular weight to be designed around the furnish.

RETENTION AND DRAINAGE

Cationic PAM programs can target fines and filler retention, sheet formation, and drainage.

CHARGE CONTROL

polyDADMAC and DMA-EPI polyamines support charge management and fixative duties.

WATER LOOP

Anionic and cationic polymers support clarification, dissolved-air flotation, and sludge handling.

PRODUCT FORM

Dry, inverse emulsion, solution, and dispersion options are screened against make-down and handling limits.

Pilot against the customer furnish, white water, and machine conditions.



PULP & PAPER / 02

Integrated material chain

Monomer quality and polymerization response shape the finished product's reliability.

MONOMERS

Acrylamide, DMAEA·MeCl, DADMAC, and selected acrylic inputs define charge architecture.

POLYMER LADDER

Tune charge, molecular weight, branching, activity, and dilution behavior.

QUALITY

Link residuals, viscosity, activity, and release tests to application results.

SUPPLY

Choose toll, private label, licensed module, or regional manufacture for the required volume.

Regulatory and product-quality requirements are specified with the customer for each end use.



PULP & PAPER / 03

Proof at the machine

Measure the paper-making outcome, not only jar-test response.

BASELINE

Current chemical program, furnish changes, deposition, drainage, and retention data.

BENCH

Charge-demand, drainage, retention, and compatibility screens.

TRIAL

Controlled dose ladder with machine quality and productivity tracked.

ECONOMICS

Cost per ton, fiber and filler yield, water-loop load, and operational stability.

A mill trial defines the grade, feed point, dose, and commercial case.