



NALCO Water
An Ecolab Company

Sustainable Water and Process Solutions for the Fiberglass Mat Industry

The Fiberglass Mat industry requires the thinnest, strongest and best quality mat in order to make building products like shingles and fiberglass-faced wallboard. Poor fiber dispersion and mat formation can cause downstream manufacturing issues, lost production time, scrap, potential failures in use and higher raw material consumption. Nalco Water has proven process solutions that can improve quality and productivity while optimizing your total cost of operation.

Our Best Practice solutions are designed to help ensure that you get the same consistent, high quality white water and process treatment results whether you have a single manufacturing site or hundreds of sites. Our treatment recommendations are tailored to the requirements of your specific process applications and reflect the collective experience of our global research, consulting, sales and marketing teams. The solution includes not only proven chemistry but also process equipment, monitoring and instrumentation, and ongoing testing and validation. As a result, the integrated offering delivers water and energy savings, increased productivity, improved product quality, enhanced safety and optimized total cost.

eROISM



WATER

**Minimized use in production and reuse /
recycle of process water streams**



ENERGY

**Conservation of process fuel and
electricity use**



WASTE

**Lower scrap rates; optimized
chemical usage**



ASSETS

**Increased production speed
and asset life**

Solutions for Fiberglass Mat Producers

VISCOSITY MODIFIERS

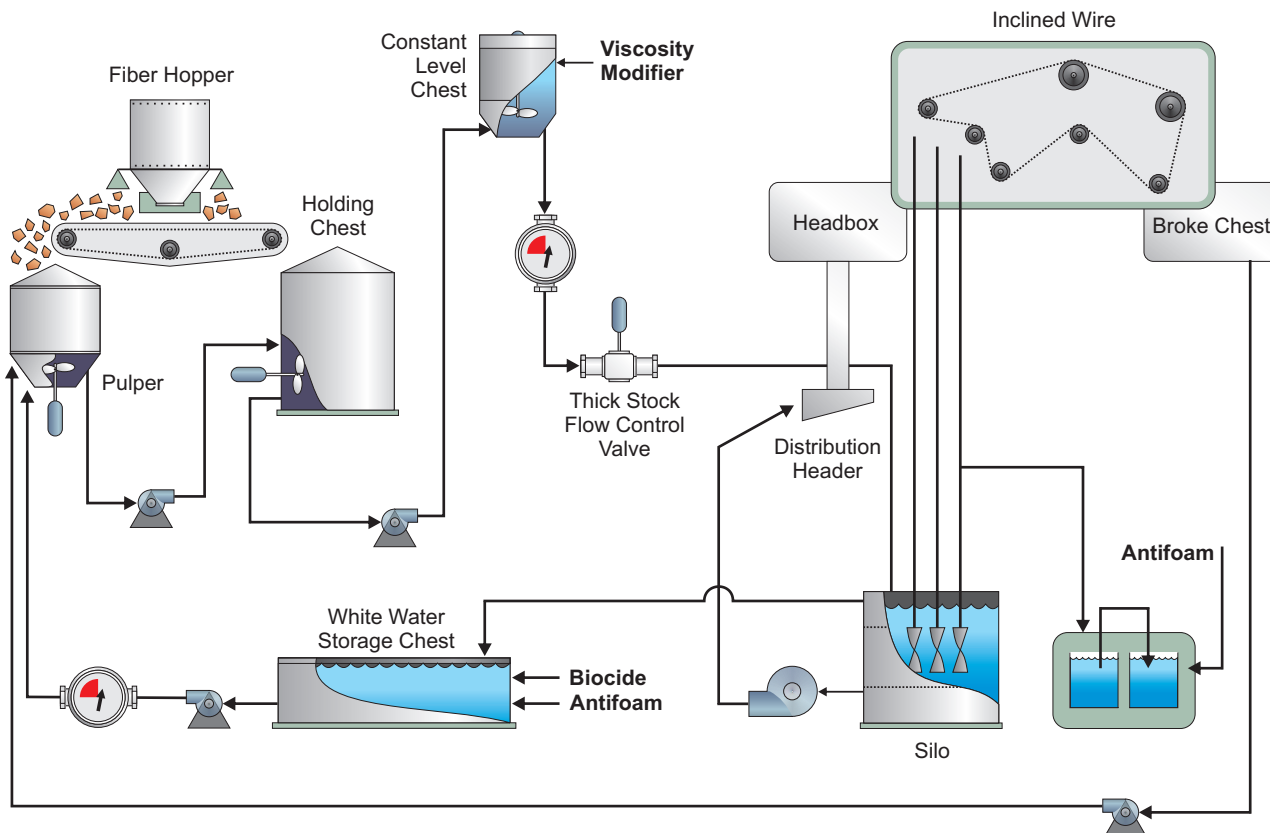
Proprietary products widely used throughout the fiberglass mat industry

- Optimizes physical properties of the mat and improves production speed
- Improves product quality by eliminating over/under feed, troubleshooting system upsets and understanding system hydraulics

DISPERSANTS

Unique, concentrated product widely used in fiberglass mat applications and includes a proprietary test to measure dispersant concentration within minutes

- Improves mat dispersion resulting in superior physical properties of mat with reduced defects
- Improves product quality by eliminating over/under feed, troubleshooting system upsets and better understanding of system hydraulics.



ANTIFOAMS

Proprietary products for controlling binder and whitewater entrained air and surface foam with online continuous air entrainment monitoring and control via 4D Air™ Technology

- Improves mat quality and production
- Optimizes antifoam feed for cost and production improvements

MICROBIOLOGICAL CONTROL

Nalco Water utilizes the latest technology to monitor and control microbial population in your process with automated, closed systems to feed safely. We also offer advanced DNA-based microbial monitoring and program testing for continuous improvement, trouble-shooting and evaluation of best programs.

- Improves product quality and mat speeds due to enhanced whitewater dispersion and viscosity control

VALUE ADDED SERVICES

- Operator training and seminars
- Analytical and technical service
- Onsite auditing and equipment consulting
- Water reuse and recycle audits
- PORTA-FEED™ chemical delivery system

For more information about Nalco Water's programs and how we can partner with you to drive increased profitability, contact Janet Kirkman at 630-305-2692 or visit our website at [nalco.ecolab.com/fiberglass mat](http://nalco.ecolab.com/fiberglass%20mat)

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