

## Eka Facts

# Bleaching Services

Nouryon is one of the world's leading suppliers of bleaching chemicals to the pulp and paper industry. We have a long history of providing innovative solutions for the efficient bleaching of pulp.

### Nouryon Bleaching Services

- Our bleaching services team has extensive experience in the pulp and paper industry.
- Experts at troubleshooting pulp quality issues such as brightness, brightness reversion, strength, dirt and pitch. We have hands on knowledge of numerous species and raw materials.
- Experienced professionals who understand furnish properties and what it takes to make grade adjustments.

### Cost – Quality – Innovation

Nouryon understands that to remain competitive in the global market our customers must continuously improve their process and lower their operating costs while still maintaining consistent pulp quality.

We know that bleaching chemicals represent a significant proportion of the variable cost to produce pulp - up to 25%. It is important to maximize the efficiency of this process, which can also be affected by wood quality, cooking and brownstock washing.

### Optimization

Our team has access to a variety of optimization tools. With a laboratory bleaching study we can simulate almost any stage or sequence. Whether it is optimizing a specific parameter or balancing an entire sequence, we have this capability.



Statistical design is used to get the most out of the data generated. These studies are great for answering "what if?" questions. The data generated can be used to create bleach plant models for further exploring operational changes including balancing wood, energy and chemical costs, determining brightness ceiling or answering "cost of brightness" questions.

Benchmark studies are conducted at the mill site. Our experts analyze detailed operating data to come up with recommendations; often identifying actions that result in significant reoccurring annual savings.

We can also evaluate and make observations on bleach plant washers. This kind of survey can lead to recommendations for improving carryover, chemical usage, and quality.



## Troubleshooting

Our experts are invaluable in troubleshooting and solving mill problems when they arise.

With knowledge of kraft, mechanical and sulfite pulp bleaching and associated processes our engineers have helped solve pulp brightness problems, scaling issues and environmental concerns.

## Training

Nouryon experts are often asked to deliver customer-specific bleach plant operations training. In these sessions, we train mill personnel how to evaluate, troubleshoot and optimize their own process and often present case studies of real situations encountered. Training is onsite and is beneficial to all personnel – operators, engineers and foremen.

For more information please contact a Nouryon bleaching services expert.

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## Disclaimer

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