

DrainEdgeTM



Don't let **PULP WASHING COSTS** make you lose your edge!

Introducing **DrainEdge**TM, the next generation pulp washing aid technologies from Buckman.

Ultimately, your pulp mill's performance is only as good as your washer performance. Inefficient pulp washing can lead to production bottlenecks, reduced quality as well as higher chemical, energy and production costs.

That's why Buckman offers more than one solution for your pulp washing challenges. We take the time to study all the issues, from foaming, to improved drainage, to pitch deposits, and we customize a solution that improves washer performance where it counts—on the bottom line.

In order for you to become a leader in the business, you need an edge ... DrainEdge.

Better Drainage. More Productivity.

Buckman is the leader in pulp washing technologies. Today, we're producing our sixth generation of pulp mill washing aids, engineered to be not only more effective but also more environmentally friendly. Based on advanced siloxane technology, our program is ideal for use in black liquor applications.

Four aids in one.

A single pulp washing program from Buckman can help solve four of your biggest challenges:

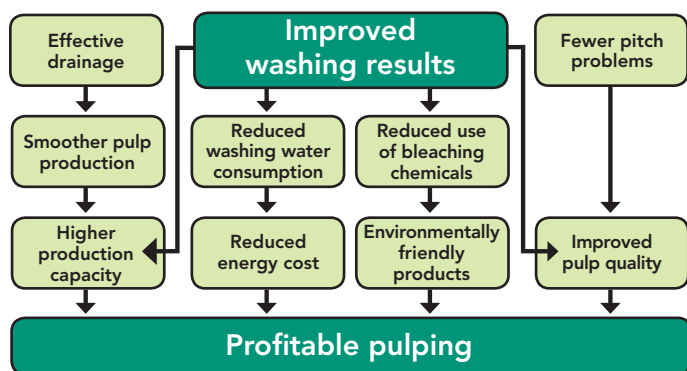
- **Drainage:** Significantly improve drainage on the washers to streamline production and avoid bottlenecks
- **Defoaming:** Get exceptional foam knockdown and persistence
- **Deposits:** Reduce pitch and defoamer deposits that can lead to paper machine rejects and costly downtime
- **Deaeration:** Improve entrained air control at lower dosages than traditional silicone products

In addition, our program gives you the ability to:

- Reduce soda losses by improving displacement of black liquor with clean wash water
- Reduce bleaching costs by removing more organic loading during washing
- Reduce dilution factor which uses less water and improves energy usage in the evaporators
- Improve removal of pitch components by better washing and lower defoamer usage

One efficiency leads to another.

With Buckman's advanced pulp washing technologies, you'll see improvements throughout your mill.



CASE STUDY

Less Defoamer. Less Cost.

The Challenge. A pulp mill producing 89 brightness softwood pulp was having trouble reducing evaporator demand and raising WBL solids. Previous attempts resulted in poor washer performance and higher bleaching costs. Another supplier tried to solve the problem by increasing defoamer use, which resulted in high dirt count on the paper machines.

The Solution. Buckman took a broader approach and studied the entire process. We identified problems with the first washer, drum speeds, and oils added due to excess defoamer use. We applied our washer aid technologies, moved the majority of defoamer addition from the last stage washer to the first stage washer, and significantly reduced washer speeds. Washer performance improved significantly and so did profitability.

The Return on Investment.

Additional defoamer program cost per year	(\$100,000)
Production increase per day	74.1
Production increase per year	\$5,187,000
Bleaching cost reductions per year	\$240,000
Paper machine dirt rejects reduction	\$120,000
Total Return on Investment	\$5,447,000

Learn more.

By providing millwide expertise and quality products, Buckman's experienced team can help your pulp mill gain an edge and increase profits. Contact your Buckman representative or visit buckman.com to get more information.

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Seller warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions. Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including **NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE**. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty. A1027H (05/18)

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