

How Can Your Mill Modernize Washing

While Achieving True Cost Savings?





The Challenge:

Siloed focus on low-cost foam control increases up- and downstream costs

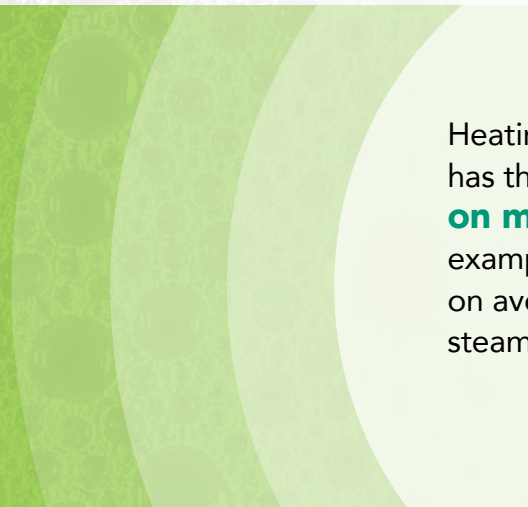
Most mills don't focus on washer consistency. That's because it's a difficult, manual calculation and the measurements aren't taken frequently enough for an accurate analysis. It's far easier to track how much they're spending on defoamer, which is why it's a frequent lever pulled when searching for brown stock washing (BSW) savings.

So during the bidding process, you may push your suppliers to reduce the price of their offering, which could mean reducing key drainage components to stay cost competitive. But because this doesn't fundamentally improve washing, you'll end up using more water and driving up energy consumption.

Even if you use the same amount of water, you could experience increased carryover of COD, higher bleaching costs and soda loss.

These connected costs quickly add up and overtake the initial savings you negotiated on the defoamer. What's more, when you need to ramp up production in response to market or customer needs, you can't just consume more chemicals, water and energy—as that could risk non-compliance with important regulations and environmental permissions.

But when your mill partners with Buckman, you'll remedy these issues and **supercharge your washing results.**



Heating water in Kraft paper mills has the **single largest effect on mill energy balance**. For example, Kraft mills in Finland use on average 10% of their total net steam production on water heating.¹

Here's how you'll make it possible. ▶▶▶

Shift from foam dependency to washing efficiency



A heavy reliance on pure foam control traps you in a vicious cycle of blasting pulp with water, dosing to knock down foam, blasting more water—then repeating the steps over and over. Meanwhile, you're diluting the real value of your process in the form of excess bleaching costs and energy usage, soda loss and potential bottlenecks in your evaporators.

With Buckman's Brown Stock Wash Aid, **you'll shift your focus from pure foam knockdown to more efficient washing overall.** With its unique emulsion of advanced siloxane compounds, drainage additives and surfactants, you'll increase exit consistencies across your BSW line. This means you can push more fiber through your process with less water, reducing bleach consumption and avoiding evaporator overload.

As a result, you're able to use advanced chemistries to continually push your performance boundaries—and stay one step ahead of the competition.

Buckman's
Brown Stock Wash Aid
provides a next-generation emulsion
of advanced formulated compounds,
drainage additives and surfactants.

Push your washing into hyperdrive



When mills need to drive throughput to new levels, they can't just push more defoamer as the solution. That's because the requirements grow proportionately, leading to over-consumption of defoamer, carryover and increased bleaching costs, as well as machine deposits.

When you apply Buckman DrainEdge®, you'll **thrust your washing into hyperdrive** by creating a positive cycle of increased performance. With an advanced, formulated concentrate that boosts drainage in early-stage washing, you'll use less water and slow drum speeds. And as you add more vat dilution, you'll essentially be "washing for free." Once it drains and your washer slows down again, you can add even more vat dilution and effectively turbocharge your washing process—all without having to add more DrainEdge.

The result: You'll reduce the risk of costly carryover, while improving conductivity and increasing exit consistency—putting you in the best position to hit your most aggressive throughput and pulp quality goals.

Buckman's DrainEdge
utilizes an advanced, formulated
concentrate that boosts drainage
in early-stage washing.

Supercharge Your Washing Results

Broaden your focus beyond cheap foam control, so you can effectively manage costs while pushing your mill's processes to keep pace with demand. Using the unique combination of Buckman's Brown Stock Wash Aids, you'll empower your mill to:



Wash more fiber with less water, **reducing energy and bleach consumption** while avoiding evaporator load



Improve conductivity and increase exit consistency **without the risk of carryover**



Hit your most aggressive **quality and throughput goals**

That's how **you'll create significantly more value** in your operation than the few cents you would save on an inexpensive defoamer.

To see how this could look in your organization,
please visit us online.