

BUSAN[®]
1215



The power of stability across your papermaking process

There are a number of significant trends in the industry that are affecting the overall dynamic of your papermaking process. There are drivers for decreased water usage, such as regulatory requirements and cost. Rising contamination in recycled OCC is also affecting quality. And there's a shift to using anaerobic digesters for effluent treatment.

In the face of these trends, organizations take various approaches. They're adding more functional chemistries to drive performance and meet necessary final product strength standards. They're frequently adding monochloramine for slime control via batch feeding, or so-called slug dosing. And to fight effluent treatment plant upsets, they're using more nutrients, expending more effort, and increasing testing.

Many factors, including some that are beyond your control, affect how process chemistries function in your environment. Treating at the point of the problem can simply create new variability down the line. With Busan® 1215, you can dose a more stable monochloramine more intelligently. With our continuous dosing methodology and technology that applies MCA with flexibility to each dosing line, you can maintain the correct dosing at all times, at every point in the process. As a result, you'll optimize your functional chemistries and reduce corrosion and scale buildup. And with our more stable MCA, which is a more persistent, longer-lasting and appropriately oxidative monochloramine, you can use less of the expensive process chemistry that can have unpredictable downstream effects. All this means you'll use MCA not just to control slime and odor, but also to maintain stability throughout the entire process.

A better biocide chemistry from the world leader in deposit control technology.

Currently being used in more than 350 applications worldwide, Buckman's Busan® 1215 is superior to conventional microbiological deposit control programs. No free chlorine. No strong oxidant. And little or no reaction with organic and chemical demand. That makes it safer and more stable, which is great for people and planet. Just as important, Busan 1215 is more effective at maintaining clean system surfaces, fighting biofilm, reducing organic deposits, and disinfecting stock and water circuits. That makes it great for the bottom line.

Dramatic improvements

Busan 1215 can help improve your operation dramatically and create significant savings in these key areas:

Wet end efficiency—helps reduce consumption of vital wet end additives, including starch, retention aids, fixatives, dyes, defoamers, wet strength, OBAs, and size.

Product quality—reduces the occurrence of holes and sheet defects due to microbiological activity. Minimizes off-grade production and food grade rejects.

Productivity—improved runnability and higher machine efficiency. Reduced breaks and fewer shutdowns for boilouts and washups.

A wide range of applications

When used as recommended, Busan 1215 is appropriate for all papermaking systems and is highly effective in:

- Paper machines: fine paper, LWC, newsprint, tissue and towel, board, and packaging
- Pulp applications
- Deinking lines

Control of specialized problems

- Catalase
- VFA (volatile fatty acids)
- Endospores in food grades
- SRBs (sulfate-reducing bacteria)

Government regulations

- Busan 1215 is registered as a pesticide by the EPA.
- Busan 1215 is registered as a pesticide in Canada (PMRA) registration number 30524.
- Busan 1215 has FDA and BfR approvals.
- Busan 1215 programs do not generate chloroform or THMs (tri-halo methanes).

No corrosion issues with Busan 1215

Both laboratory and mill studies have shown that when used as recommended, Busan 1215 will not contribute to corrosion in your system. Buckman will perform corrosion studies in your system as part of a Busan 1215 service program.

Benefit from Buckman Ackumen™ MCA-i™

Maintaining a reliable and safe process on an ongoing basis requires you to understand what's happening throughout the process, but that's a lot of variables to contend with. Using Buckman Ackumen MCA-i, you can monitor and respond to variability throughout the process. Using predictive dosing, you can dose the right amount of MCA at all times. And our predictive, preventive maintenance helps keep your equipment running at peak efficiency. As a result, you'll minimize the negative impacts of big swings and avoid unplanned downtime to maintain productivity, quality, and profitability.

Learn more

Now you can treat your equipment and the environment to a whole new level of protection. To find out more about the Busan 1215 system from Buckman, contact your local representative or visit us online at buckman.com.

Success Stories:

Case Study 1

In its 2020 sustainability report, DS Smith referenced their partnership with Buckman by name as a proof point in their climate mitigation efforts. They said: "Rising temperatures increase stress on water resources. As water is crucial to papermaking, it is important that our mills mitigate risks to future availability. DS Smith partners with chemical supplier, Buckman, in several mills to alter our chemical mix which enables more water recirculation and less starch waste and effluent contamination." Specific results include:

- 74% calcium carbonate precipitation reduction in anaerobic reactors
- No need to inject fresh anaerobic biomass in the reactors, saving money and emissions
- Improved performance of anaerobic biomass; generated 60% more biogas with a 1.5% savings to total consumption of fresh methane
- 40% reduction of calcium carbonate in the activated sludge tank, resulting in less required maintenance

Case Study 2

A paper mill was using a competitive MCA program with a large slug-dosing strategy, totaling 2-3 Kg/ton, but they were unable to control pH, ORP, and conductivity. In addition to MCA, they added a supplemental biocide with large slugs to regain pH, but that caused major issues with their wastewater treatment plant. Each slug dose created wet-end chemistry swings that caused numerous operational problems—breaks, downgrades, lower strengths, moisture variations, etc. But their wet-end chemical evaluations were always inconclusive because nothing was stable enough to see benefits. When they switched to the Buckman MCA continuous dosing strategy focused on the stock system, they were able to control pH, ORP, and conductivity with a 50% reduction in the addition rate, eliminating the need for the supplemental biocide. They completely stabilized the wet-end chemistry, and wet-end chemical evaluations could be re-run.

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