

Refine your  
sugar processes  
with solutions  
from Buckman.

## Protect your diffusion system with Oxamine<sup>®</sup> from Buckman

Just as you want to get the most from every pressing, you want to extract all the value you can from your mill. For that you need the support of a chemical program that not only knows its own business, but also knows yours.

Buckman understands the importance of tough microorganism control in juice programs. With the Oxamine system from Buckman, we combine smart chemistry and proprietary feeding and monitoring equipment to bring you a process treatment that works to build a strong juice treatment program that guards against profit-dissolving microorganisms.

Moreover, Oxamine is an inorganic solution and contains no organic toxins, helping you stay ahead of sugar beet industry regulatory requirements.

# Oxamine<sup>®</sup> is tougher on microbiological activity, sweeter on the environment.

## Microbiological fouling and infection can lead to considerable sugar loss during mill processing

In order to combat bacterial activity, high levels of biocides are usually necessary. However, high biocide consumption can lead to inefficient pulp pressing along with increased environmental, health and safety risks during production. Buckman has engineered a unique system to combat microbiological fouling and increase mill efficiency while reducing safety and environmental risks.

## Oxamine is strong

Oxamine is an extremely powerful, less corrosive biocide that is highly effective against a broad range of microorganisms. Unlike conventional halogen treatments, Oxamine is not affected by organic load. It is more effective, penetrating the entire population (not just the top layer) without damaging metal or plastic seals. Slug dosage of Oxamine allows for infection control during normal processes or when beet quality changes. So, you get cleaner heat exchangers, pulp press sections, screens, diffusions and preparators, as well as a reduction in overall chemical usage.

## Oxamine is more eco- and budget-friendly

Oxamine is more environmentally friendly, degrading into simple, nontoxic salts while minimizing the formation of AOX compounds. Yet, it is more cost-effective than virtually any other oxidizing or nonoxidizing biocide. You can rely on Oxamine for:

- Longer-lasting residual effectiveness
- Low oxidation potential
- Degradation into nontoxic salts
- No contribution of organic contaminants

## Big results

Plants that use Oxamine in place of formaldehyde-based biocides typically experience:

- Control of the lactic acid and contamination level
- Better pH stability in diffusion process
- Better stability of dewatering of pulp
- Increase of the brightness of the final sugar
- Reduction of the amount of defoamer used at various steps of the sugar and ethanol process
- Reduction of the undetermined sugar losses
- No negative impact on fermentation process

## Benefit from our fully automated feed technology

To ensure both safe handling and effectiveness, the Oxamine solution is generated from Oxamine and bleach precursors and fed into the target water system using Buckman's custom-designed chemical feed skid under the supervision of our trained field representatives. Our self-contained feed technology offers:

## Consistent delivery

- Accurate feed rate control and distribution
- Optimum mixing for high stability and guaranteed microbial control
- Wide application range and flexible dosing options
- Several feed points with wide treatment capacity
- Diverse program capabilities

## Leading-edge safety

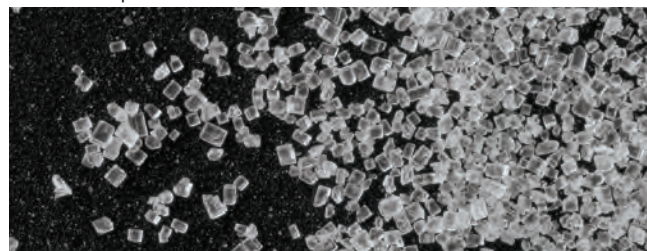
- Pre-flush, post-flush and automated alarm flush cycles
- Automated alarm protocols to respond to hazards
- Leakproof cabinet and double walled lines
- Anti-flood protection
- Full product containment

## Low hassle

- No capital investment—Buckman owns and maintains all application equipment
- Supervised by a Buckman representative
- Can be linked to your DCS so you can monitor vital activity
- Telemetry capabilities compatible with our cloud-based customer platform Buckman OnSite<sup>®</sup>

## Learn more

Now you can treat your water and the environment better. Find out more about the Oxamine system from Buckman. Contact your local Buckman representative or visit [buckman.com](http://buckman.com).



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