



# SUGAR & ETHANOL



# EXTRACT

all the value you can  
from your mill.

Refine your  
sugar and ethanol  
processes  
with solutions  
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 company that not only knows its own business but also knows yours.

Buckman offers a wide range of solutions for sugarcane, beet, wheat, and corn processors around the world, solutions that can improve products, protect equipment, and enhance mill performance dramatically.

Buckman brings an in-depth knowledge to every step in the sugar and bioenergy processes. And we can provide ongoing treatment of all your water systems throughout the mill. So your operation works smarter. Your products perform better. And, sweetest of all, you realize a big return on investment.



# Let Buckman help you sweeten your operation and your bottom line.

At Buckman, our job isn't only to help you produce sugar and ethanol. It's also to help you produce a profit. From reducing sugar losses in crushing and diffusion to reducing your energy consumption and water usage, Buckman can help boost your profitability. We work to reduce downtime associated with cleaning and repair. We provide on-site technical assistance to solve small problems before they become big ones. We provide in-depth training, contingency planning, and more to ensure that your mill always operates at top efficiency. With Buckman you'll get the full range of chemical products, equipment, and expertise you need to control costs and streamline operations.

Look to us for both process and water treatment applications.

## Process Applications

### Washing

- Defoaming for both neutral and alkaline pH conditions
  - Free of animal compounds
- Coagulants and flocculants for washing water clarification

### Extraction

- Defoaming for diffusion
- Formaldehyde-free biocides that improve the whiteness of sugar without affecting taste
- Pulp-pressing aids that increase pulp loading by improving the slicing rate
- Invertase activity control to help in the processing of poor quality sugar sources

### Purification

- Defoaming for preliners, limers, and saturation
- Flocculants for decanters
- Process flocculants for milling, refining, and flotation
- Color removal aids for milling and refining processes



### Evaporation

- Scale inhibition
- On-line removal of calcium scale
- Enzymes to control starch and dextran
- Efficiency checks

### Crystallization

- Fluidity improvement for better masses exhaustion in pans and crystallizers
- Microbial control in sugar dust recovery systems

### Ethanol fermentation and refining

- Wetting agents for boiling pans
- Defoaming
- Scale inhibition
- Bactericides and antibiotics
- Cooling water treatment for fermentation and distillation processes
- Yeast water treatment for the fermentation process

### Distillation

- Scale inhibitors for distillation columns



## Water Treatment Applications

### Cleaning

- Additives, corrosion inhibitors, and dispersants
- Wastewater treatment startup and followup biotechnologies programs

### Utilities

- Boiler water treatment for both medium and high pressure boilers
- Boiler lay up
- Cooling water corrosion, deposit, and microbiological control
- Reverse osmosis optimization
- Steam and condensate treatment
- Alkaline and acid cleaning for water reuse systems
- Contaminated water treatment
- Fuel treatment
- Odor control in the lagoons

## Learn more

Get unmatched knowledge and comprehensive support for both your production processes and water treatment needs. Find out more about Buckman's sugar and ethanol programs. Contact your local Buckman representative, or visit us online at [buckman.com](http://buckman.com).

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Argentina +54 11 4701-6415; Australia +61 (2) 6923 5888; Belgium +32 9 257 92 11; Brasil +55 (19) 3864-5000; Chile +56-2) 2946-1000; China +86-21) 6921-0188; India +91) 44-2648 0220  
Indonesia +(62) 21-2988 8288; Japan +(81) 3 6202 1515; Korea +(82) 31-416 8991; Mexico +52 (777) 329 3740; Singapore +(65) 6891 9200; South Africa +27 (31) 736 8800; United States +1 (901) 278-0330

Global Headquarters at 1256 N. McLean Blvd., Memphis, TN 38108, USA