

Fermentation Performance in Fuel Ethanol Plants

One of the most important processes in fuel ethanol production is yeast fermentation of glucose into ethanol. When fermentation is running well, downstream operations run well. Unfortunately, if fermentation does not run well, downstream processes become fouled and low quality byproducts are produced. Also, fuel ethanol output is compromised, reducing facility profits.

Hydri-Maize™ HC 2759

Hydri-Maize HC 2759 is a liquid antibiotic-free antimicrobial that is used to control bacterial infections that negatively impact fermentation processes. Overuse of antibiotics can lead to antibiotic-resistant bacteria strains and many antibiotics only target gram-positive bacteria. Hydri-Maize HC 2759 targets both gram-positive and gram-negative bacteria and reduces the need for antibiotics. The use of Hydri-Maize HC 2759 can also decrease lactic acid content and free up sugar for fermentation, leading to increased fermentation performance. Hydri-Maize HC 2759 is a liquid that can be injected directly into infected systems and it is approved for use in beverage grade alcohol production processes.

Other Applications

Hydri-Maize HC 2759 is a liquid antimicrobial that is useful in the following areas:

- Fermenters, Dead Legs, and Mash Coolers
- CO₂ Scrubbers
- Anywhere microbial infections are identified
- Reduction in residual sulfur levels within denatured ethanol
- Odor control in animal rendering processes
- Effective against both gram-negative and gram-positive bacteria present in sugar beet flumes, cossette mixers, and front-end processes
- Powerful CIP additive for protein and oxalate removal



Hydrite M3ASURE™ for Distillers Corn Oil (DCO)

M3ASURE is a smart, all-in-one system built to optimize your DCO recovery process. It combines real-time data tracking, advance analytics, and automated optimization to improve efficiency, consistency, and profitability in your operation. The system uses cutting-edge algorithms to reduce costs and increase profit. It's a bolt-on technology that's easy to install and acts like a 24/7 operator — always providing optimal demulsifier dosing to maximize DCO production.



Measure, Monitor, Manage:

Measure: M3ASURE continuously measures key process variables such as temperature, DCO production, scaling potential, and process upsets. It uses sophisticated sensors to deliver accurate, real-time data

Monitor: The system monitors operational costs, DCO production per shift, chemical usage, and signs of system fouling, providing a comprehensive view of your process health.

Manage: M3ASURE gives you full control of your DCO process from your smartphone. It provides 24/7 insights into chemical costs and DCO production, enabling you to manage profitability with precision and make informed decisions anytime, anywhere.



Providing Creative Solutions

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