



Maximize your Nitrogen.
Maximize your Profit.

BELOW-GROUND NITRIFICATION INHIBITOR

Lock UP
your nitrogen
investment

- Nitrogen stabilizer specially formulated for anhydrous ammonia, UAN, aqua, and liquid urea applications to maximize grains per head and *Feed the Need*.
- Non-corrosive properties of LockdownN™ make it significantly easier to handle, reducing downtime and potential damage to equipment.
- MAXIMIZE nitrogen availability by keeping ammonium more stable for longer, and MINIMIZE potential losses from leaching and denitrification.

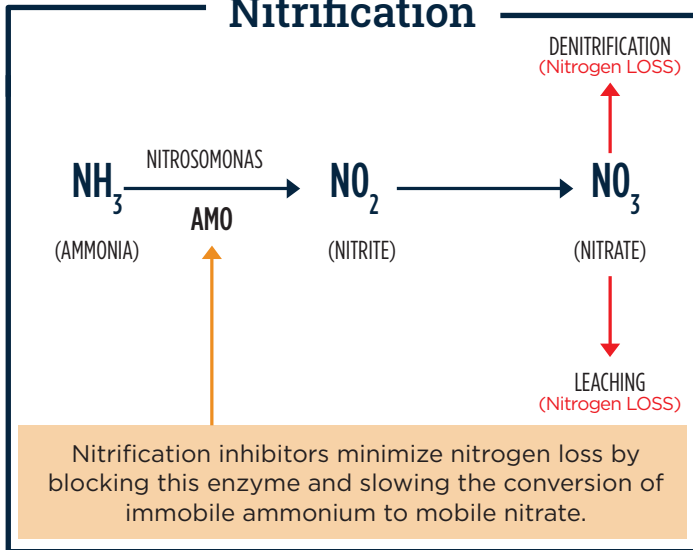
Up to **25%** greater nitrogen use-efficiency¹

Over 50%

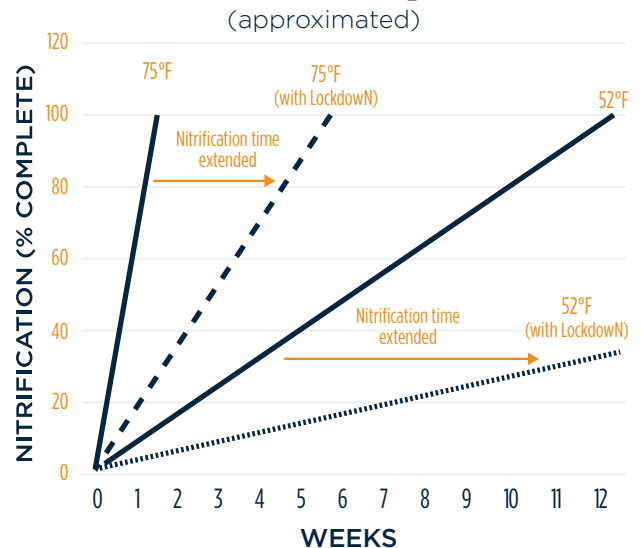
of applied nitrogen may be out of reach before peak demands

3X longer protection of nitrogen in the ammonium state²

Nitrification



LockdownN's Impact on Nitrification Rates at Various Temperatures³



START. FEED. FINISH



YIELD 3D™

Your pathway to optimal farm profitability

FREQUENTLY ASKED QUESTIONS

When is nitrogen most critical in the plant lifecycle?

Access to nitrogen early in the season drives biomass, tiller counts, ears per acre, and number of heads. Later- season nitrogen access drives not only test weight and protein content, but also grains per head and kernel weight – factors that are especially yield-limiting in PNW crops. Well-timed nitrogen availability that matches the crop’s demand curves is crucial to maximizing nitrogen use efficiency. By slowing the conversion of ammonium to nitrate, fall-applied nitrogen’s availability more closely matches the crop’s nitrogen use curve.

How does LockdownN maximize nitrogen availability with soil-applied nitrogen applications?

LockdownN protects against denitrification and leaching by effecting the Nitrosomonas bacteria responsible for converting immobile ammonium into mobile nitrate. By slowing the nitrification process and keeping nitrogen in the plant’s root zone, LockdownN helps preserve the maximum amount of nitrogen available to the crop WHERE and WHEN it is needed most – *Feed the Need* and optimize yield potential.

What are the results of LockdownN?

Research repeatedly shows that nitrogen stabilization can significantly improve our ability to manage where the nitrogen is in the soil profile in order to more effectively drive nitrogen. By slowing the conversion of ammonium to nitrate, LockdownN has been proven to consistently reduce nitrogen leaching potential in the soil and improve nutrient-use efficiency by up to 25%.

Does LockdownN require unique storage or blending?

LockdownN is noncorrosive to the metals used in anhydrous ammonia and UAN equipment. These noncorrosive properties eliminate the need for stainless steel tanks as well as any washing or rinsing of equipment between use. LockdownN can be stored for up to 2 years withstanding temperatures up to 110° F and as low as -9° F.

Notes:

Lock it up with **LOCKDOWN** 

Premium Plant Nutrition



www.mcgregor.com

¹Data provided by University of Nebraska, University of Missouri, and the Illinois Fertilizer and Chemical Association under a Research Trial Financial Support Agreement with the FIFRA product registrant. Neither the universities or institutions, nor the individual researchers referenced, endorse or recommend any product or service. Improvements in nutrient use efficiency, yield and nitrate leaching may not be observed in all cases. ²Data based on third-party laboratory studies funded by the FIFRA product registrant; results may vary based on a number of factors, including environmental conditions. ³Nutrient Management for Agronomic Crops in Nebraska (Tim Shaver, p.7) and third-party laboratory studies funded by the FIFRA product registrant.