

NITREA 45NU PLUS

Infused granular nitrogen fertilizer

Product Description

NITREA 45NU PLUS is an infused 46-0-0 nitrogen fertilizer with urease and nitrification inhibitors, plus our proven nutrient enhancer, NITREA PLUS. This specialized formula safeguards applied nitrogen from volatilization and leaching while facilitating optimal nutrient absorption. By incorporating established components and advanced technologies in one product, NITREA 45NU PLUS promotes enhanced nitrogen uptake, ensuring comprehensive fertilizer management from field application to plant assimilation.

How does it work?

NITREA 45NU PLUS comprises three active components that collaborate to stabilize applied nitrogen and enhance the accessibility of other soil nutrients.

The nitrogen stabilizers, NBPT and DCD, actively inhibit bacteria in the soil responsible for breaking down nitrogen into forms that are either inaccessible to plants or prone to environmental loss. This protection occurs above and below the soil surface, ensuring a consistent and readily available nitrogen supply for optimal crop uptake.

Additionally, the included nutrient enhancer in NITREA 45NU PLUS is a negatively charged amino acid polymer. It effectively retains nutrients in the soil solution by inhibiting the formation of insoluble, plant-unavailable compounds. This also fosters the growth of root hairs and attracts and retains moisture in the soil, contributing to the expansion of beneficial microorganism populations.



Contact AgronX to improve your soil efficiency.

Pete Rethans

Peter.Rethans@agronx.com

(209) 988-5162

Shawn Scott

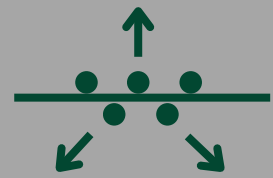
Shawn.Scott@agronx.com

(832) 263-5976

Bailey Lawson

Bailey.Lawson@agronx.com

(762) 323-8686



Triple protect applied nitrogen from volatilization, leaching, and denitrification.

N+ K+
Ca+ P+ Mg+

Benefit from the numerous advantages provided by NITREA PLUS.



Optimize your fertilizer investments by improving your nitrogen use efficiency.



Maintain plant-available nitrogen in the soil for an extended period to support plant growth.



Improve crop quality and boost yields.



Qualify for NRCS Conservation Stewardship Program (CSP).

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Protect your N Investment

Above the soil:

At the soil surface, the NBPT element in NITREA 45NU PLUS hinders the activity of microorganisms responsible for breaking down urea into ammonia gas and carbon dioxide. This release of gas, known as volatilization, can lead to significant losses of applied nitrogen before it reaches the crop. NITREA 45NU PLUS guarantees the effective delivery of nitrogen into the soil profile.

Below the soil:

As NITREA 45NU PLUS moves into the soil profile, the threat shifts from volatilization to nitrification. In this phase, urea transforms into ammonium, a form of nitrogen accessible to plants. DCD, present in NITREA 45NU PLUS, acts as a safeguard against nitrification—the conversion of ammonium to nitrate. Nitrates are highly prone to leaching and susceptible to denitrification, resulting in environmental losses. NITREA 45NU PLUS has demonstrated efficacy in slowing the nitrification process to 30-40 days, compared to the 6-18 days observed with untreated urea.

Untreated Urea

6-18 days

NITREA 45NU PLUS

30-40 days

Choosing NITREA 45NU PLUS is the ideal decision for nourishing your plants today while making a long-term investment in the health of your soil.

Benefits of the Nutrient Enhancer

NITREA 45NU PLUS stands out in the current market as one of the few products that not only stabilizes nitrogen but also enhances the retention of various nutrients in the soil solution. This advanced technology effectively restrains the formation of insoluble nutrients that are inaccessible to plants, leading to an accumulation of readily available nutrients in the soil. Additional advantages include:

- Promotion of root growth
- Attraction and retention of moisture in the soil
- Promotion of a robust and beneficial soil microbiome
- Increase in soil organic matter

