

Infused granular nitrogen fertilizer for sugarcane production

NITREA 45NU and NITREA 45NU PLUS

Features and Benefits

- Reduces volatilization, lowering ammonia gas emissions
- Helps keep nitrogen source in its ammonium form longer, allowing for the longest use of the available nitrogen
- Complexes positively charged nutrients in the soil, promoting an increase in uptake of nutrients
- Delays nitrification, lowering nitrous oxide emissions and leaching



Efficiency of nitrogen fertilization applications in sugarcane crops can be reduced due to losses via volatilization, leaching, and nitrification-denitrification. Some studies have shown losses of available nitrogen can be as much as fifty percent. The use of urease and nitrification inhibitors can greatly reduce the losses, making more nitrogen available to the plant for a longer period of time.

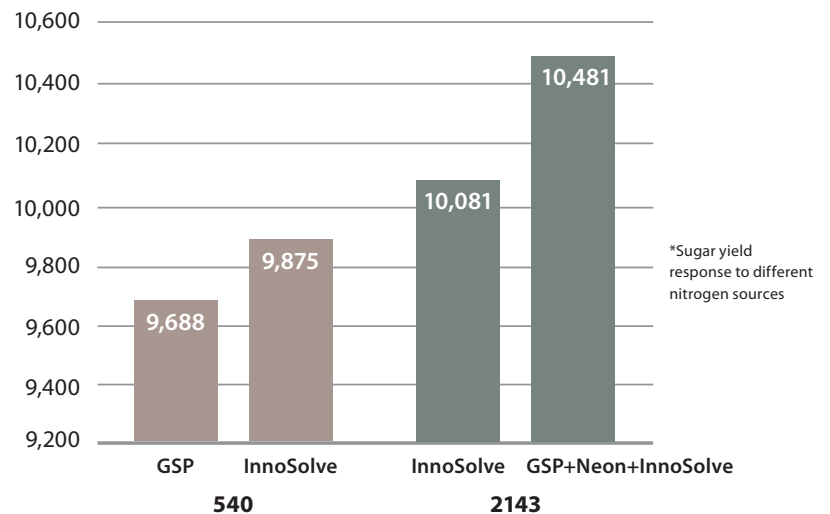
NITREA 45NU™

- Infused through a precise process
- Inhibits the activity of volatilization, retaining usable nitrogen
- Slows the conversion of ammonium form to nitrate, allowing plant to have more access to nitrogen longer without leaching away from growing zone

NITREA 45NU PLUS™

- Same inhibitors infused as NITREA 45NU
- Added NITREA PLUS nutrient enhancer
- Increases the uptake of both positively and negatively charged nutrients in the soil

Sugar Yield (lbs/ac)



*Method that cuts sugarcane emissions gets global prize. 10/11/17. "This is an important step in reducing nitrous oxide emissions... The researchers calculated a reduction rate of 85-95 percent for soils with urea inhibitors, compared with soil with urea..."

*Improving the efficiency of urea-based fertilization leading to reduction in ammonia emission. June, 2021. "NBPT can reduce ammonia emissions from urea fertilizers by 30-70% in both laboratory field tests. The inhibitors that are most widely studied and applied in the field include nitrification inhibitors, such as nitrapyrin and DCD, while in the case of urease inhibitors NBPT was chosen."

*A round-up of enhanced urea fertilizers and additives. Feb. 8, 2019. "Enhanced urea fertilizers and urease additives could soon have a greater role on arable farms as the government looks to slash ammonia losses through clean air strategy."

*Prioritizing Crop Management to Increase Nitrogen Use Efficiency in Australian Sugarcane Crops. Sept 5, 2017. "Sugarcane production relies on the application of large amounts of nitrogen (N) fertilizer. However, application N in excess of crop needs can lead to loss of N to the environment, which can negatively impact ecosystems."

AgronX understands a sugarcane grower's investment in nitrogen fertilizer inputs and their interest in protecting the surrounding environment for all to appreciate.

Contact AgronX to improve soil efficiency
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