



Enhanced Efficiency Fertilizer

What is Hold-N?

Hold-N is UREA or UAN nitrogen that has been treated by Hi-Line Coop with NBPT, a urease inhibitor.

How does it work?

The NBPT found in Hold-N reduces the risk of volatilization for surface applied nitrogen by inhibiting the urease enzymes. This protection keeps the nitrogen in a stable form until it enters the top soil where it is no longer susceptible to volatilization.

Features & Benefits:

- » Use when nitrogen is surface applied
- » Effective volatility control up to 28 days
- » NBPT is the most well documented, university researched urease inhibitor in the market
- » Active ingredient NBPT (N-(n-butyl) thiophosphoric triamide), is an AAPFCO defined urease inhibitor
- » Ask your NRCS rep about conservation practice 590, the use of an Enhanced Efficiency Fertilizer could qualify you for cost share payments

Hi-Line Cooperative, Inc.

203 S Perkins Ave / Elsie, NE 69134 / (308) 352-2800



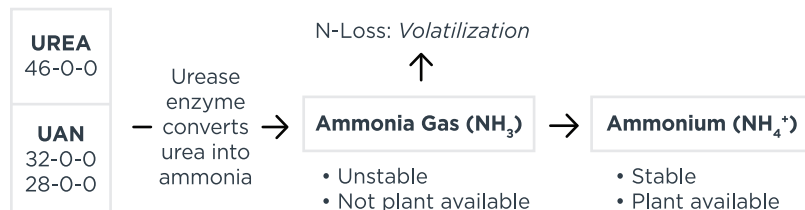


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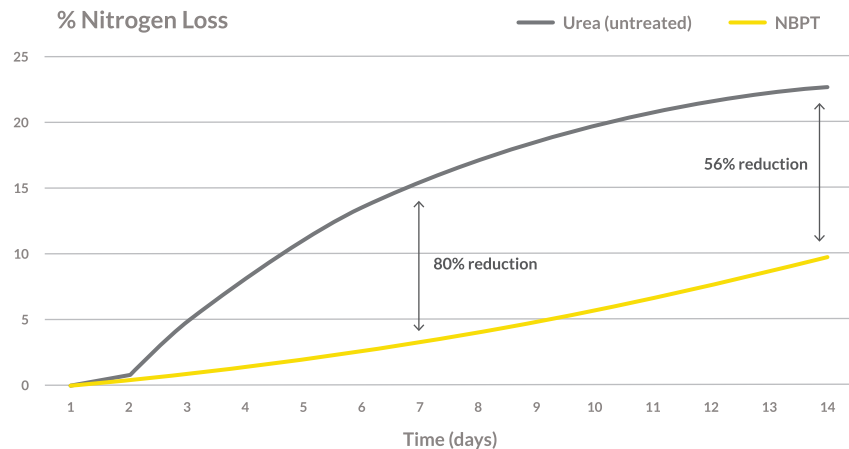
Above Ground Protection NBPT - UREASE INHIBITOR

While on the soil surface, nitrogen loss to volatilization can be up to 40 percent. Urease enzymes convert urea nitrogen into ammonia gas which can be lost to the atmosphere.

VOLATILIZATION Nitrogen on the surface



NBPT blocks the urease enzymes, slowing this conversion process. NBPT can reduce volatility loss for 14 – 28 days depending on weather and soil conditions. This protection keeps the nitrogen in a stable form until it can enter the topsoil where it is no longer susceptible to volatilization.



This volatility study conducted by LSU demonstrates the effectiveness of NBPT against volatilization. After 7 days, the NBPT treated urea reduced nitrogen loss by 80% compared to untreated urea.

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