

Stabilized Nitrogen Advantages

ONE INHIBITOR IS GOOD. TWO ARE BETTER.

Some lawn care professionals are applying stabilized nitrogen fertilizers, but with only one inhibitor. While these products may provide some advantages, fertilizers incorporating both urease and nitrification inhibitors are more effective. Together, they optimize nitrogen (N) availability to turfgrass, because they work both on and below the soil surface. Plus, they minimize potential losses to the environment.

UREASE INHIBITORS:

- Slow the conversion of urea to ammonium, reducing potential N loss through volatilization, but do not protect against denitrification and/or leaching.
- Do not appreciably extend the length of time that N is available to turfgrass.

NITRIFICATION INHIBITORS:

- Slow the conversion of ammonium to nitrite, reducing potential N loss through denitrification and/or leaching, but do not protect against volatilization.
- Availability of N to turfgrass can be extended compared to non-amended fertilizer.

DUAL INHIBITORS:

- Contain urease and nitrification inhibitors in the same product. With this combination, N use efficiency is enhanced.
- Keeps N available to turfgrass for a longer period of time, on and below the soil surface.
- Extends the window of longevity so more of the N purchased can be utilized by the turfgrass.
- Protects against volatilization, leaching and denitrification.

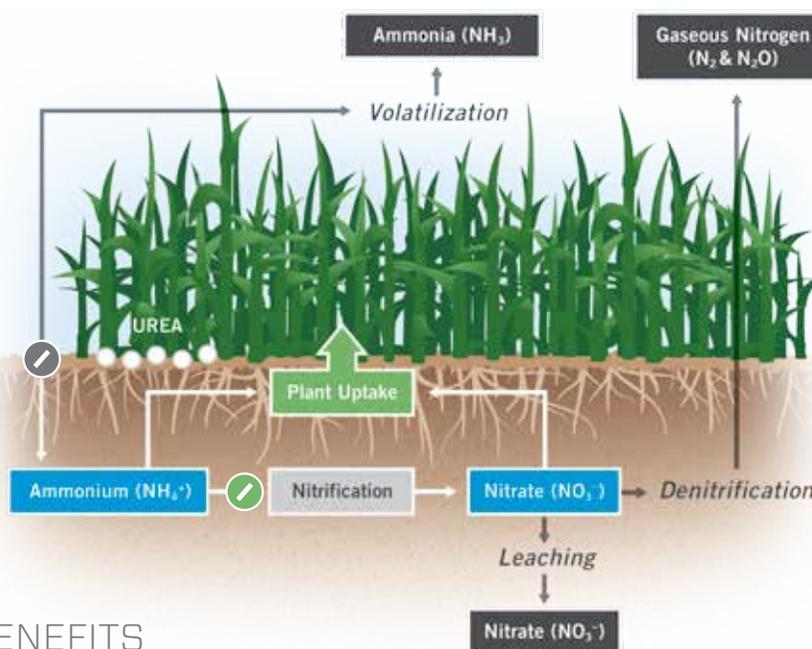
HOW DUAL-INHIBITOR TECHNOLOGY WORKS

REDUCES VOLATILIZATION

Urease inhibitors work while fertilizer is on the soil surface to slow the enzyme urease from breaking down urea to ammonium and ammonia gas, which is subject to volatilization loss. This allows time for urea to move below the surface by rainfall or irrigation.

REDUCES DENITRIFICATION AND LEACHING

Nitrification inhibitors work to slow soil bacteria from converting ammonium into nitrate, which is highly subject to denitrification and leaching.



Up to 12 weeks
of plant response



Up to 8 weeks
of plant response

PRODUCT BENEFITS

Koch Turf & Ornamental offers stabilized nitrogen fertilizers incorporating dual-inhibitor technology.

- Dependable performance across varying soil conditions (e.g. pH, temperature, moisture)
- Quick green-up and sustained color
- Performs equally well as a granular N component in blends or as a soluble N source in spray tanks
- Virtually eliminates N loss due to mower pick-up
- Can be tank mixed with many turfgrass protection chemicals