

# Instinct NXTGEN™

Optinyte™ technology

## NITROGEN STABILIZER

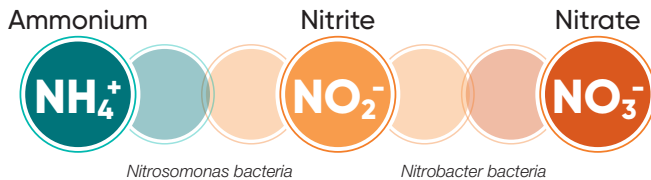
# Maximize yield and minimize loss with an enhanced formulation

### Key features

- Encapsulated nitrogen stabilizer
- Optimizes yield potential when used with UAN, urea and liquid manure
- Water based and mixes well with UAN solutions fertilizer
- Compatible with most herbicides and insecticides
- Must be incorporated within 10 days by either ½ inch of rain or mechanical incorporation
- Enhanced cold temperature handling and tank-mix compatibility from previous formulations

### How does Instinct NXTGEN™ nitrogen work?

Crops use nitrogen in two forms: ammonium ( $\text{NH}_4^+$ ) and nitrate ( $\text{NO}_3^-$ ). But it prefers ammonium — because that form is easier for the plant to absorb and less susceptible to loss. Instinct NXTGEN™ nitrogen stabilizer, powered by Optinyte™ technology, slows down the *Nitrosomonas* bacteria that convert ammonium to nitrate, keeping nitrogen in the ammonium form longer. It works underground, where up to 70 percent of nitrogen loss can occur through leaching into the ground or denitrification into the atmosphere.



### Mixing

Instinct NXTGEN can be tank-mixed with the following fertilizers:

- UAN (such as 28% and 32%)
- Urea
- Ammonium sulfate (AMS)
- Liquid manure
- Aqua ammonia
- Liquid fertilizers containing N, phosphorus and potassium (such as 10-34-0)
- Ammonium containing dry fertilizers (MAP or DAP)

### Benefits

When using Instinct NXTGEN for UAN, urea and liquid manure, farmers and retailers will benefit from:

- 6 to 8 more weeks of nitrogen availability in the soil
- 51% fewer greenhouse gas emissions\*
- 16% less nitrogen leaching\*
- 28% greater soil retention\*

### Recommended application rates per acre\*

Fall	Spring	Sidedress
24 - 48 oz.	24 oz.	12 - 24 oz.

\*See label for specific rate details and restrictions.

### Stronger, healthier plants

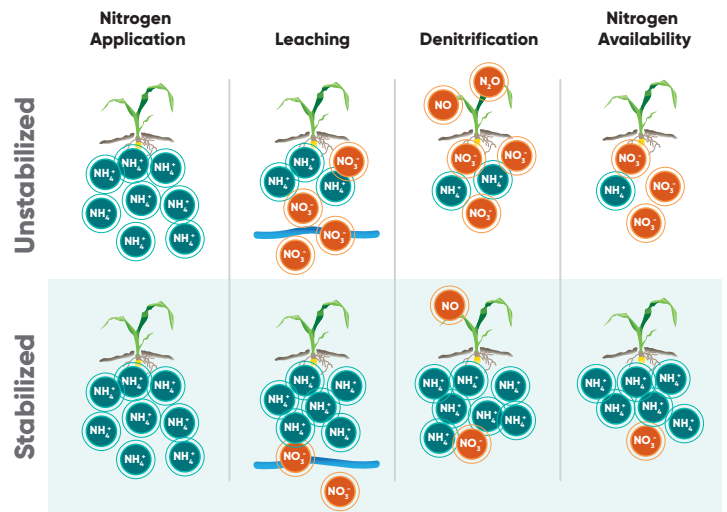
- Increased yield potential
- More natural crop drydown
- Increased grain test weight

### When do nitrogen losses occur?

Most nitrogen losses occur during the spring:

- Spring rains and warm soil temperatures lead to heavy losses through both leaching and denitrification
- Stabilizing with Instinct NXTGEN greatly reduces both leaching and denitrification by protecting nitrogen in the root zone

### What happens to unstabilized nitrogen?



For more information about Instinct NXTGEN nitrogen stabilizer visit [NitrogenMaximizers.com](http://NitrogenMaximizers.com), call 800-258-3033 or contact your local Corteva Agriscience territory manager.

\*Wolt, J.D. 2004. A meta-analysis of nitrpyrin agronomic and environmental effectiveness with emphasis on corn production in the midwestern USA. doi 10.1023/B:FRES.0000025287.52565.99.