

Instinct[®]

Optinyte™ technology

NITROGEN STABILIZER

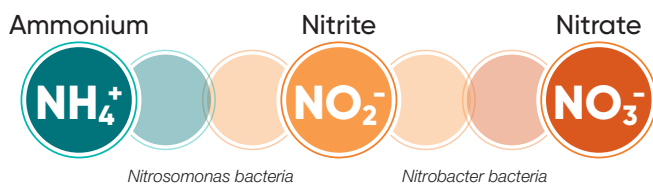
Protects nitrogen at the root zone

Key features

- Encapsulated nitrogen stabilizer
- Optimizes yield potential when used with liquid nitrogen, liquid manure and urea
- 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

How does Instinct[®] nitrogen maximizer work?

Crops use nitrogen in two forms: ammonium (NH₄⁺) and nitrate (NO₃⁻). But it prefers ammonium — because that form is easier for the plant to absorb and less susceptible to loss. Powered by Optinyte™ technology, Instinct[®] nitrogen maximizer 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 can be tank-mixed with the following fertilizers:

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

Instinct can also be impregnated onto urea and most dry ammoniacal fertilizer blends.

- Ammonium containing dry fertilizers (MAP or DAP)

Stronger, healthier plants

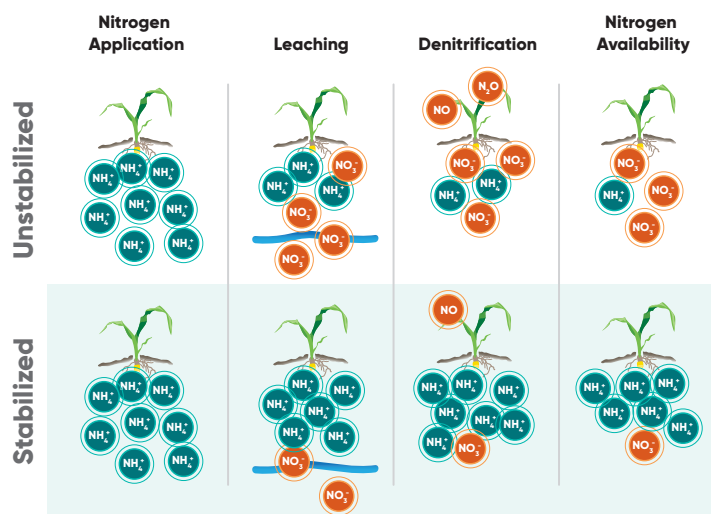
- Increased yield
- More natural crop drydown
- Increased grain test weight

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 greatly reduces both leaching and denitrification by protecting nitrogen in the root zone

What happens to unstabilized nitrogen?



Application rates per acre

	Spring	Fall	Sidedress
Instinct II	37 oz.	37 - 74 oz.	18 - 37 oz.

For more information about Instinct nitrogen maximizer visit NitrogenMaximizers.com, call 800-258-3033 or contact your local territory from Corteva Agriscience™, Agriculture Division of DowDuPont.

Visit us at corteva.us