

Relative Amount of Active Ingredient Needed Per Acre

Optinyte® Technology (Nitrpyrin) vs. DCD (Dicyandiamide)

1x.

**N-Serve® and Instinct NXTGEN®
Nitrogen Stabilizers**

**"Nitrpyrin is quite effective
even at relatively low rates."**

Nitrpyrin is quite effective even at relatively low rates. Rates as low as 0.1 ppm have been shown to effectively inhibit certain strains of Nitrosomonas, but rates of 10 ppm has been shown to be effective against most strains (Belser and Schmidt, 1981).

Source: Robert Mullen | Nitrogen additives: What is what, and do they work?

Mullen, Robert W. 2010. Nitrogen additives: What is what, and do they work?" Proceedings of the Integrated Crop Management Conference. 23. <https://lib.dr.iastate.edu/icm/2010/proceedings/23>

up to
30x

DCD

**"Dicyandiamide is required
at a significantly larger
concentration to be effective."**

Dicyandiamide is required at a significantly larger concentration to be effective. Zacherl and Amberger (1990) found that DCD had to be applied at concentrations of 300 ppm to inhibit the activity of Nitrosomonas.

Source: Robert Mullen | Nitrogen additives: What is what, and do they work?

**"DCD is effective only at certain rates;
however, the rates used typically are
not high enough to be effective."**

Source: North Dakota State University | Dave Franzen

Franzen, D. 2017. Chemistry to Enhance Nitrogen and Phosphorous Efficiency. Indiana CCA Conference, 12 December, 2017, North Dakota State University.



For more information visit [NutrientMaximizers.com](https://www.nutrientmaximizers.com) or contact your local Corteva Agriscience™ territory manager.

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Instinct NXTGEN is not registered for sale or use in all states. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your state.
Do not fall-apply anhydrous ammonia south of Highway 16 in the state of Illinois. Always read and follow label directions. ©2022 Corteva CA01-437-028 (12/22) COR