



NITROGEN PROTECTION | A NEW COMPLETE SOLUTION TO NITROGEN LOSS

Synsus's new NitroGard™ family of products provide a novel, patent-pending approach to managing nitrogen losses with the new HCR (Highly Charged Resin) technology that preserves active ingredients from degradation, allowing protection against nitrogen loss, protecting yield and profits, providing peace of mind and environmental stewardship. Our products are designed to protect NBPT and DCD from natural soil degradation, which allows for reduced chemical load of nitrogen inhibitors. NitroGard™ products can provide effective nitrogen management while stewarding soil health.

HOW IT BENEFITS YOUR CROPS

- Protects against three forms of nitrogen loss: volatilization, nitrification/leaching, and denitrification.
- Protects NBPT and DCD when paired with the HCR.
- Contains effective prill penetrating properties by utilizing our unique solvent system.
- Flexible application rates for Urea and UAN.

FORMULATION OPTIONS

All NitroGard products contain HCR

	PRODUCT	FORMULATION	BENEFITS
COMBOS	V-Gard™	15% NBPT + 5% DCD	<ul style="list-style-type: none"> • Protection against all forms of nitrogen loss, with emphasis on reducing volatilization. • Similar or better results with a lower chemical load.
	D-Gard™	5% NBPT + 20% DCD	<ul style="list-style-type: none"> • Protection against all forms of nitrogen loss, with emphasis on reducing nitrate leaching and denitrification • Similar or better results with a lower chemical load
	EverGard™	10% NBPT + 10% DCD	<ul style="list-style-type: none"> • Optimized to protect against all forms of nitrogen loss • Similar or better results with a lower chemical load • Single SKU solution
SOLOS	HiCharge™ NBPT	26.7% NBPT + HCR	Traditional NBPT rates with added HCR protection
	HiCharge™ DCD	25% DCD + HCR	Traditional DCD rates with added HCR protection

COMPLETE N PROTECTION

NitroGard™ improves fertilizer performance using HCR and Hocking's unique solvent system.

HCR binds to NBPT and DCD, maximizing active ingredient efficacy

Hocking's unique solvent system penetrates prills more deeply than other solvent systems.

Resiliency & Stability with Lower Load – Synsus's solvent system has long been recognized for its ability to penetrate urea prills, creating the most effective use of NBPT and DCD on dry fertilizer. Now, with the incorporation of NitroGard™ technology, our products have incremental resiliency by extending the life of NPBT and DCD across a wide range of soil and environmental conditions. With the added HCR technology protection, farmers can maintain performance with up to 40% lower chemical load compared to other NBPT-based products.

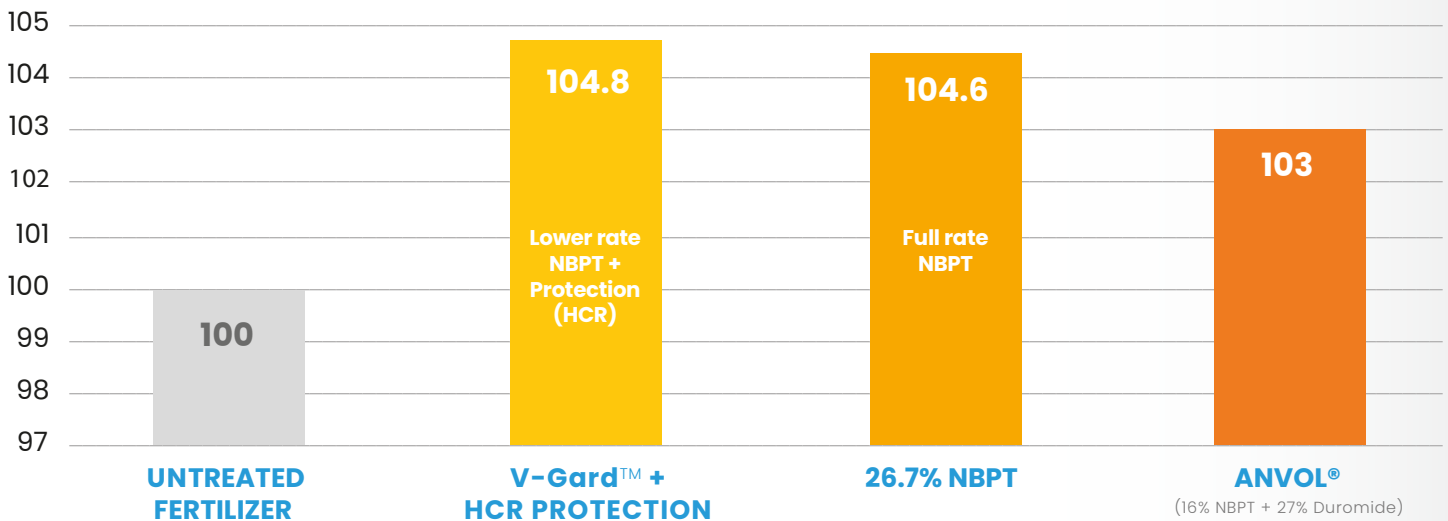
THE RIGHT FORMULA FOR YOUR NEEDS

With multiple formula options, NitroGard™ offers growers more nitrogen protection flexibility. All formulations can be used in either urea or UAN fertilizers.

Our Highly Charged Resin stabilizes the formulation and enhances the effectiveness of the NBPT and DCD, driving strong yield performance with a lower overall chemical load to the soil, limiting the impact to soil health. The products have flexible use rates of 1.5–2.5 quarts per ton of fertilizer.

PROTECTING THE INHIBITOR IS IMPORTANT

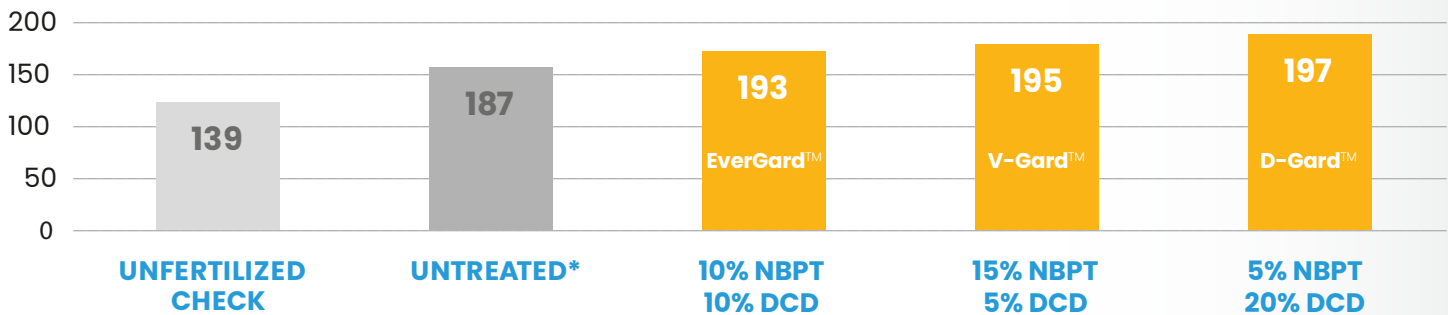
2020 AVERAGE CORN TRIAL RESULTS AS PERCENT OF CHECK (100%)



INCREASE CORN YIELDS

2020 trial results across 16 sites and 80 replications across 12 states showed an average 4.5 percent yield increase across the NitroGard™ product line compared to the untreated check, giving the grower a strong return on their investment.

AVERAGE YIELD 2020 UREA CORN TRIALS



Results of field trials conducted on 16 sites with a total of 80 replications in 2020, Nitrogen rate of 125lbs/a, plant population of 44,000ppa, NitroGard rate at 2 qts/ton and Competitor Product G rate at 2 qts/ton.

*Nitrogen treatment without N inhibitors

NITROGARD IS THE BETTER CHOICE

NitroGard™ combines patent-pending HCR technology with well-known active ingredients to improve Nutrient Use Efficiency. NitroGard™ gives similar or better results at a lower chemical load than competitor products, for farmers also concerned with soil health.

Made in the U.S.A.