

Enhanced Efficiency Fertilizers (EEFs)

PRODUCT PORTFOLIO

Controlled-Release • Slow-Release • Stabilized Nitrogen









PRODUCT CATALOG CONTENTS



EFFECTIVE. EFFICIENT. PROVEN.

Allied Nutrients[™] is committed to providing only the industry's leading Efficient, Effective and PROVEN enhanced efficiency fertilizer technologies. Allied's portfolio is not only filled with the foremost in proven quality but also the largest and most diverse in flexibility - regarding SGNs and longevities. Allied's technologies have been specifically developed to solve the unique challenges of green industry professionals and have been tried, trusted and PROVEN to provide optimal nutrient uptake, dependable extended feeding and exceptional turf and ornamental appearance and health.

Allied Nutrients' enhanced efficiency fertilizer (EEF) products can also reduce operating costs, free up labor, increase the return on time and nutrient investment (ROI) and protect the environment by reducing the potential for nutrient leaching, denitrification, runoff and volatilization.

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Reliable, Sustainable & Economical

Developed by the industry leader in supplying and manufacturing the top performing and PROVEN enhanced efficiency fertilizer (EEFs) technologies, TTRU[™] Time-Release Urea is a new PCU fertilizer with outstanding performance you can TTRUST.



TTRU[™] ADVANCED POLYMER-COATING TECHNOLOGY

Low-dust granule excellent flowability and non-clogging

SGN options regular and mini



- **Thickness of coating** determines longevity from 60 to 180* days per application
- **PROVEN Polymer coating** for reliable nitrogen (N) release
- **Durable coating** to maintain consistent nutrient release, durability during transport, blending, application - resulting in performance you can TTRUST

HOW IT WORKS





Nutrients begin to

dissolve resulting

in a concentrated

nutrient solution

membrane.

inside the polymer



Nutrients move

(soil solution). Temperature and polymer thickness control rate of release.

across polymer coat

by diffusion, from

high concentration

to low concentration

• **SUSTAINABLE** - Greatly reduces

to maintain healthy turf.

the potential for nutrient leaching,

denitrification, runoff or volatilization

• ECONOMICAL - Maximizes ROI on labor and operating cost. Is less costly per day

• FLEXIBLE - Longevities available in 60,

90*, 120*, 180* day. *Coming in 2022

N

Plants take

up nutrients,

release until

driving further

particle is empty.

After application, soil moisture moves through polymer and into the encased fertilizer.

PRODUCT BENEFITS

- **PROVEN** Controlled-release technology that provides a reliable and gradual release of nitrogen for extended nutrition and consistent, vibrant and healthy turf
- **DURABLE** Stays intact during transportation, blending and application to maintain consistent release of nutrition and more efficient release of nitrogen in the first 7 days!
- **PRECISE, METERED NUTRITION** -Reduced likelihood of feast/famine cycles, growth flushes and burn. Strengthens turf against weed and disease pressures

Industries Developed for: Commercial and Residential Lawn Care, Golf and Sports Turf





DURATION CR[®] controlled-release fertilizer relies on a patented and durable polymer-coated technology to gradually and efficiently release nutrients. The result is the consistent metering of nutrition that lasts for weeks, even months, with fewer applications. This consistency helps to take the worry out of maintaining healthy turfgrass and plants for turfgrass managers, lawn and landscape professionals, and specialty ag growers.

PRODUCT BENEFITS

DURATION CR[®] controlled-release fertilizer sustains turfgrass growth and color, and is widely used by superintendents as well as lawn care professionals and sports turf managers. This enhanced efficiency product has also been successfully applied to improve specialty agriculture yield.

- Advanced polymer-coated technology for dependable nutrient release
- Reduced likelihood of feast/famine cycles, growth flushes and burn; healthier turfgrass and plants less susceptible to weed and disease pressures
- Release regulated by temperature and coating thickness
- Longevities for 45, 90, 120 and 180 days

 Fewer applications can reduce overall fertilizer expense, fuel costs and equipment upkeep; allows reallocation of labor

- Environmentally responsible with low potential for nutrient leaching, denitrification, runoff or volatilization
- Nitrogen and potash products available

ADVANCED POLYMER-COATING TECHNOLOGY



Resists abrasions

elements.

HOW IT WORKS



MORE CONTROL AND FLEXIBILITY

With longevities and sizes for every application, DURATION CR[®] fertilizer allows your customers to put together programs to best manage turfgrass and plant nutritional needs. They can also tailor fertilizer applications to the conditions — various growth cycles, weather, seasonal changes, traffic patterns and other unique situations.

LONGEVITIES (average days of nutrient release)

- **45 Day** | Early or late season applications, or for use on areas in need of additional nutrition
- •90 Day | Provides balanced nutrition over targeted portions of the growing season, or for catch-up nutrition
- **120 Day** | Provides needed nutrition to turf or plants with longer growing cycles that may require multiple applications, either early or late in the season or cycle
- **180 Day** | Delivers consistent, dependable nutrition to turf or plants with extended growing cycles of up to six months

Release specifications for 80% total nutrient release at 68°F.

SGN COMPARISON CHART

DURATION CR[®] fertilizer is sized to accommodate a variety of application requirements — from greens, fairways and sports fields, to landscapes, residential and commercial properties.

Granule options at actual size	Micro	Mini	Regular	
SGN	80-110	120-180	220-270	
Urea	-	Yes	Yes	
Potash	Yes	Yes	Yes	*Based on an analysis of
Approx. # of granules per sq. ft.*	1,100	400	75	per 1000 sq. ft.



XCU® slow-release fertilizer provides gradual, steady nutritional uptake for up to 10 weeks of plant response. XCU[®] fertilizer has the highest nitrogen (N) content (43%) and lowest sulfur content (4%) of any polymer-coated sulfur-coated urea (PCSCU) on the market. The value is more area can be covered per application using less fertilizer, which is more efficient and economical. Also, with less N lock-off more of the applied N is taken up and utilized by turfgrass or plants in the expected time frame.

ADVANCED DUAL-COATING TECHNOLOGY



HOW IT WORKS



Soil moisture penetrates the sulfur and polymer coatings





With previous-technology SCUs, this pressure cracked the coating, immediately releasing N (catastrophic release). The inner polymer coating of XCU[®] ferthilizer results in a hybrid of diffusion-based release and catastrophic release, resulting in a more consistent release profile.

After N release, the sulfur eventually breaks down into the soil where it may be taken up by the plant.

PRODUCT BENEFITS

XCU[®] slow-release fertilizer has been widely used by superintendents, LCOs, municipal turf managers and professional landscapers to economically and efficiently promote a plant response of health, growth and color for up to 10 weeks per application.

- Unique, durable coating provides gradual, consistent N release when needed to optimize nutrient uptake by the plant
- Increased percentage of XCU[®] fertilizer in blends delivers increased value and improved nutrient uptake
- · Dual-coated technology provides up to 10 weeks of plant response
- Fewer applications can reduce overall fertilizer expense, fuel costs and equipment upkeep; allows for optimization of labor
- · Highly flowable for ease of handling and consistent application
- Environmentally responsible with low potential for nutrient leaching, denitrification. runoff or volatilization

OPTIONS AND FLEXIBILITY

XCU[®] fertilizer is available in sizes to fit a number of fertilization programs.

Granule options at actual size	Mini	Regular
ANALYSIS	41-0-0	43-0-0
SGN	120-180	220-270
Nitrogen	41%	43%
Sulfur	7%	4%

Only a portion of the N applied as conventional fertilizer is taken up by plants, but enhanced efficiency fertilizers (EEFs) increase N uptake. Increasing the XCU® fertilizer content in blends results in more efficient N use; the more XCU® fertilizer used, the better your blends work.

FERTILIZER BLEND	lb. N taken up from 1 lb. N application	% increase vs. 100% urea
100% urea	0.36	n/a
75% urea / 25% XCU®	0.42	17
50% urea / 50% XCU®	0.48	34
25% urea / 75% XCU®	0.54	51
100% XCU [®]	0.61	69

Above data from University of Florida and Pennsylvania State University.



NITROFORM[®] slow-release urea-formaldehyde (UF) fertilizer delivers a steady, balanced and dependable source of nitrogen (N) for up to 22 weeks or more. For more than 50 years, turf and ornamental professionals have relied on NITROFORM[®] fertilizer, due to its exclusive release properties that make it one of the safest and longest-lasting slow-release sources of N available.

UREA-FORMALDEHYDE TECHNOLOGY



Safe and long-lasting

Unique mode of release for strong, rapid root development



SGN options powder, mini and regular

- Supplies both N and energy-rich carbon to help increase and sustain populations of beneficial microorganisms in the soil

HOW IT WORKS



With over two-thirds of its formulation as water insoluble nitrogen (WIN), NITROFORM® fertilizer feeds through natural processes by microbial breakdown. Microbes gradually convert UF into urea, which is converted into ammonium then nitrate in the soil. Nitrogen release rate is dictated by the length of the UF chains. WIN extends nutrient release up to 22 weeks.

PRODUCT BENEFITS

NITROFORM[®] slow-release fertilizer has been widely applied by turfgrass and tree care managers as well as professional growers looking for a long-lasting source of N that consistently delivers long-term nutrition to help support root development and sustained growth. NITROFORM[®] fertilizer granules can be broadcast, or the powder can be suspended in water, spray-applied or root-zone injected for trees and shrubs.

Increased growth of beneficial

Consistent feeding for up to 22 weeks

or longer with fewer applications

Less potential risk of leaching

soil microorganisms

into groundwater

- One of the safest and longest-lasting slow-release sources of N available
- Nitrogen from methylene urea (MU) and UF
- Over two-thirds is WIN
- Reduced thatch development

OPTIONS AND OPPORTUNITIES

TURF

- The unique release properties of NITROFORM[®] fertilizer promote vigorous rooting that helps to create rapid development of root tissue
- The result is dense turfgrass that can withstand the rigors of today's more intensively managed turfgrass practices, with minimal impact from insects, weeds and diseases

ORNAMENTAL

- Used as a pre-plant amendment, the release properties of NITROFORM[®] fertilizer assist in more rapid root development and establishment
 - With potting mixes high in woody content, soluble N can be tied up by microbes as they break down organic material. NITROFORM[®] fertilizer can provide long-term N to satisfy the needs of plants and microorganisms.
- Can also be used as a topdress application for both container- and field-grown ornamentals in many areas

TREES

- Formulated to stay suspended in solution
- Balanced and dependable source of N that can be injected into the soil around the tree's root zone

	Powder	Mini	Regular
Granule options at actual size	and the		
SGN	< 0.25 mm	120-180	220-270
Total Nitrogen	39%	39%	39%
Urea Nitrogen	3%	3%	3%
Slowly Available Water Soluble Nitrogen*	7.5%	7.5%	7.5%
Water Insoluble Nitrogen	28.5%	28.5%	28.5%
Slow-Release Nitrogen (% of Total N) AOAC 945.01 Method	92%	92%	92%

*Slowly available N from UF.

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NUTRALENE[®] slow-release fertilizer is a methylene urea (MU) source with a guaranteed analysis of 40-0-0. The consistent, long-lasting release of nutrition for up to 16 weeks provides a cost-effective, low-maintenance solution to effectively increase root growth, which helps to improve turfgrass health.

PRODUCT BENEFITS

NUTRALENE[®] slow-release fertilizer has been widely applied by turfgrass professionals looking for a long-lasting and consistent delivery of nutrition for up to 16 weeks. NUTRALENE[®] fertilizer offers a range of sizes giving you the maximum in rate flexibility.

- Slowly releases its 47.5% WIN, which enriches soil's microbiology, helping to increase root growth and density
- Gradual, consistent release enhances steady, sustained growth to minimize flushes
- Extended feeding with fewer applications
- By providing a more reliable and sustainable release, the peaks and valleys caused by more inconsistent fertilizers are avoided
- Release is not affected by mechanical damage
- Less potential risk of nitrate leaching or runoff

OPTIONS AND FLEXIBILITY

NUTRALENE[®] fertilizer can be applied under a broad range of environmental conditions at any time of the year. A choice of three sizes is available for rate flexibility.

	Micro	Mini	Regular
Granule options at actual size			
SGN	80-110	120-180	220-270
Total Nitrogen	40%	40%	40%
Urea Nitrogen	4%	4%	4%
Slowly Available Water Soluble Nitrogen*	17%	17%	17%
Water Insoluble Nitrogen (WIN)	19%	19%	19%
Slow-Release Nitrogen (% of Total N) AOAC 970.04 Method	90%	90%	90%

*Slowly available N from MU.

NUTRIENT RELEASE



METHYLENE UREA TECHNOLOGY





47.5% of total nitrogen (N) is

water-insoluble nitrogen (WIN) and low-salt index of 25

Broken or damaged particles don't affect nutrient release rate

HOW IT WORKS





NITAMIN[®] targeted foliar nitrogen (N) is a patented, liquid nutrient source specifically designed for foliar applications in turfgrass, row crops, vegetables and fruits. University research shows the advantages its humectant properties provide for rapid and extended foliar absorption. The high N content — yet lower salt index than a straight urea solution — adds that critical margin of performance, efficiency and safety.

SOLUBLE METHYLENE UREA TECHNOLOGY



Unique combination of small-tomedium sized molecules of 100% water soluble methylene urea, in association with just the right amount of urea solution

by enzymes in the leaf tissue

TOTAL NITROGEN	30%
UREA NITROGEN	12%
OTHER WATER SOLUBLE NITROGEN*	18%

*The N in NITAMIN® fertilizer meets AAPFCO definitions for urea-triazone solution, methylene urea and urea.

Patented formulation confers highly desirable humectant properties, preventing rapid drying and crystallization on the leaf surface, which allows more N to be absorbed through the leaf tissue

PRODUCT BENEFITS

NITAMIN[®] fertilizer has been successfully used by turfgrass managers as well as specialty ag and row crop growers. By using this flexible, advanced technology, your customers can increase application safety, and customize their fertility programs. It is particularly useful as a carrier for crop protection chemicals. The short- to medium-chain methylene urea (MU) helps smooth out the N release pattern.

- Targeted Applied directly to the leaf surface for rapid absorption and green-up
- Crop Safe Low-salt index, and low ammonia and biuret levels improve crop safety
- Steady-Delivery[®] High N concentration, stays soluble longer, enhanced foliar uptake
- Flexible Compatible with a wide range of micronutrients and crop protection chemicals

LEAF ABSORPTION STUDY (growth chamber study)

NITAMIN[®] fertilizer absorbs more rapidly than both urea ammonium nitrate (UAN) and dissolved urea, allowing the plant to absorb more nutrients.



Cotton (Stoneville 4288 B2RF) planted on February 18. Foliar treatments applied on March 26 at a rate of 10 lbs N per acre each.

CROP SAFETY



Study shows that NITAMIN[®] fertilizer has a lower burn potential than urea making it a safer source of N for plants.

> Source: Hicks and Galt, 2007. Hulst Research Farm Services. Leaf burn study conducted on almonds. Foliar fertilization was applied at a rate of 14 lbs. N/acre in June. Leaf burn measured in July.



UMAXX[®] stabilized nitrogen fertilizer provides protection against all three forms of nitrogen (N) loss — leaching, denitrification and volatilization. It is a urea-based product with a 46-0-0 analysis, containing both urease and nitrification inhibitors. A completely soluble granular, UMAXX[®] fertilizer is equally effective whether spread dry or dissolved in a spray mix.

PRODUCT BENEFITS

UMAXX® stabilized nitrogen is a dual-inhibitor urea fertilizer specially formulated for the golf market and other turfgrass applications. Urease and nitrification inhibitors reduce all three types of N loss, which helps make the most of your nutrition investment.

- Dependable performance across varying soil conditions (e.g. pH, temperature, moisture)
- Quick green-up and sustained color
- Virtually eliminates N loss due to mower pick-up
- Can be tank-mixed with many turfgrass protection chemicals
- Environmentally responsible with low potential for leaching, denitrification, runoff or volatilization
- Completely soluble granular can be sprayed or spread

PROVEN PERFORMANCE

Research performed at The Ohio State University shows how UMAXX[®] fertilizer compares to standard urea. The initial response of UMAXX[®] fertilizer was similar to urea with extended turfgrass response.

COMPARISON OF UMAXX® FERTILIZER TO UREA ON KENTUCKY BLUEGRASS-OHIO



Source: Street et al., The Ohio State University, 2001. Application: 1 lb. per 1,000 sq. ft. The underlying data was provided by The Ohio State University under a Research Trial Financial Support Agreement. The Ohio State University does not endorse or recommend any product or service.

PRODUCT SPECIFICATIONS

Granule options at actual size	Mini	Regular		
Analysis	46-0-0	46-0-0		
SGN	120-180	220-270		
Uses	As an ingredient in dry or liquid fertilizer blends. Can be applied directly or solubilized for spray application.			

DUAL-INHIBITOR TECHNOLOGY

Urease inhibitor

to help prevent naturally occurring urease from breaking down urea

SGN options mini and regular



HOW IT WORKS

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.

DENITRIFICATION AND LEACHING

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





UFLEXX[®] stabilized nitrogen fertilizer is specially formulated for the professional lawn care and landscape markets. This unique product helps to protect against all three forms of loss — leaching, denitrification and volatilization — allowing time for nitrogen (N) to move into the root zone and stay there longer. As a result, there is quick green-up, followed by sustained turfgrass color for up to 8 weeks.

DUAL-INHIBITOR TECHNOLOGY



HOW IT WORKS

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.

DENITRIFICATION AND LEACHING

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



PRODUCT BENEFITS

UFLEXX[®] stabilized nitrogen fertilizer with its dual-inhibitor technology adapts easily to existing spray or spread programs, and is specially formulated for the lawn care market and other turfgrass applications. Urease and nitrification inhibitors reduce all three types of nitrogen loss, which helps make the most of your nutrition investment.

- Dependable performance across varying soil conditions (e.g. pH, temperature, moisture)
- Quick green-up and sustained green 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
- Environmentally responsible with low potential for leaching, denitrification, runoff or volatilization

PROVEN PERFORMANCE

According to a University of Missouri study, UFLEXX[®] stabilized nitrogen fertilizer produced the same or better performance in both short-term and sustained visual quality than more urea (UFLEXX[®] at 0.75 lb. N vs urea at 1.25 lb. N).



COMPARISON OF REDUCED RATE OF UFLEXX® FERTILIZER TO HIGH RATE OF UREA ON QUALITY OF A TALL FESCUE/KENTUCKY BLUEGRASS BLEND

Source: Lloyd and Xiong, University of Missouri, 2010. Various N rates. The underlying data was provided by the University of Missouri under a Research Trial Financial Support

Agreement. The University of Missouri does not endorse or recommend any product or service.

PRODUCT SPECIFICATIONS

Granule options at actual size	Mini	Regular	
Analysis	46-0-0	46-0-0	
SGN	120-180	220-270	
Uses	As an ingredient in dry or liquid fertilizer blends; can be applied directly or dissolved for spray applications.		





HYDREXX[®] professional nitrogen stabilizer is an innovative additive that gives turfgrass professionals complete control of their turfgrass programs. It allows for the stabilization of urea-based nitrogen (N) sources and the management of rates to efficiently provide the needed plant response from a few weeks to months per application.

RESOURCES

Listed here is the contact information for Allied Nutrients and organizations we support in promoting the proper and responsible use of fertilizers.

DUAL-INHIBITOR TECHNOLOGY

Adding HYDREXX[®] nitrogen stabilizer to a urea-based spray solution or ammonium sulfate (AS) helps to make turfgrass fertilizer application more efficient.





Contains a urease inhibitor that helps minimize N loss from the surface. Contains a nitrification inhibitor to keep more N available in the root zone.



As a result, N remains in the soil for a longer period of time to optimize nutrition uptake and efficiently mitigates N loss.

PRODUCT BENEFITS

The customization of HYDREXX[®] nitrogen stabilizer allows applicators to adjust rates to match specific soil and environmental conditions. Whether it is a heavier or sandier soil, the rates and longevity are determined by the applicator.

- For use with liquid urea, AS and urea ammonium nitrate (UAN) solution
- Extended, consistent turfgrass response with exceptional color
- Provides control over rate and length of performance
- Stabilizes urea fertilizer so it is held in the most efficient, ammonium form
- Dependable performance across
 varying soil conditions
- (e.g. pH, temperature, moisture)
- Can be tank-mixed with many turfgrass protection chemicals
- Environmentally responsible with low potential for leaching, denitrification, runoff or volatilization

ALLIED NUTRIENTS CONTACTS

Customer Service

contact@alliednutrients.com For Order Placement: customercare@alliednutrients.com Toll Free: (888) 220-0013 Local: (330) 220-0524 **Sales** West - Bowden (Bo) Hepler - (503) 703-4163

NE Mid-Atlantic - Andy Drohen - (413) 685-5469 Central - Scott Chaffee - (614) 306-6888

Southeast - Chris Derrick - (205) 382-7765

Website

www.alliednutrients.com

ORGANIZATION CONTACT INFORMATION

- APPFCO www.aapfco.org
- · Golf Course Superintendents Association of America (GCSAA) www.gcsaa.org
- Grass Roots Initiative at the National Arboretum www.usna.usda.gov/Education/turfgrass.html
- National Association of Landscape Professionals (NALP) www.landscapeprofessionals.org
- Project Evergreen www.projectevergreen.org
- · Responsible Industry for a Sound Environment (RISE) www.pestfacts.org
- · 4R Nutrient Stewardship www.nutrientstewardship.com

NITROGEN SOURCE COMPARISON CHART

ENHANCED EFFICIENCY FERTILIZERS (EEFS) VS. UNTREATED/READILY AVAILABLE FERTILIZER

e burn		UNTREATE AVAIL	D/READILY ABLE	CONTROLLED- RELEASE
tors. Th ndex or y low ct when	ALLIEIJ NUTRIENTS	UREA	AMMONIUM SULFATE	DURATION CR®
hibi alt ir mel odu	% Nitrogen	46	21	40 - 44
d. Si AN). Xtre y pro	EEF	No	No	Yes
and nitrificati HYDREXX use ium sulfate, U results in an e iulate from an	Release Mechanism	Solubility / Hydrolysis	Solubility	Temperature- Controlled Diffusion
ase non ting cum	Initial Response	1-2 Days	1-2 Days	1-3 Weeks
aining ure on the rat (urea, ami m the coar m the coar l. ded.	Approximate Longevity	1 -4 Weeks	1 - 4 Weeks	1.5 - 6 Months
cont ding sed e fro entia ts, s ts, s rovic	Color	White	White	Tan
additive (X depen Source L te release burn pott e produc g is not p	Application Visibility	Good	Good	Good
ertilizer or UMA) or UMA) ertilizer of solu ery low for som flushin	Labor Intensity	High	High	Low - Moderate
s a fe XX o XX o Sen f sen f rate rate low uate	Leaching Potential	High	High	Very Low
. It is JFLE itrog itrog low refo / be dequ	Volatilization Potential	High	Low	Very Low
llizer t of L he n t he l the may s if a	Temperature Sensitivity	Low	Low	Moderate
ferti that on tl ancts, anc anc anc	Moisture Sensitivity	High	High	Low
ot a ar to sed dex, er p	Preferred at pH > 7	No	No	Yes
imila s ba ed p ed p llt in tain	Preferred at pH < 7	Yes	Yes	Yes
HYDREXX ctivity is s potential i * For coat ffective se ** Althou; sed in con	Salt Index	74	68	N/A**
	Burn Potential***	High	High	Very Low

CONTROLLED-RELEASE FERTILIZERS

Polymer-coated products that precisely meter nutrient release based on soil temperature — making nutrition available when plants can use it.

SLOW-RELEASE FERTILIZERS

Reacted and polymer-coated sulfur-coated urea (PCSCU) technologies slow the release of nitrogen into the soil, making it available to the plant over a longer period of time.

STABILIZED NITROGEN FERTILIZERS

Contains urease and nitrification inhibitors, enhancing nitrogen availability for the plant and reducing nitrogen loss due to volatilization, denitrification and leaching.

SLOW-RELEASE			STA	BILIZED NITE	ROGEN	
XCU®	NUTRALENE®	NITROFORM®	NITAMIN®	UFLEXX®	UMAXX®	HYDREXX [®] *
41 - 43	40	39	30	46	46	N/A
Yes	Yes	Yes	Yes	Yes	Yes	Yes
Catastrophic Release / Diffusion Hybrid	Microbial	Microbial	Microbial	Solubility / Hydrolysis	Solubility / Hydrolysis	Solubility / Hydrolysis
3-7 Days	1-2 Weeks	2-3 Weeks	2-5 Days	2-5 Days	2-5 Days	2-5 Days
1.5 - 2.5 Months	3 - 4 Months	4 - 5 Months	1.5 - 2.5 Months	1.5 - 2 Months	2.5 - 3 Months	1.5 - 3 Months Rate Depen- dent
Blue Green	Bright Green	Bright Blue	Clear Liquid	Light Blue	Light Green	Powder
Good	Good	Good	Add Spray Pattern Indicator	Good	Good	Add Spray Pattern Indicator
Moderate	Low	Low	Moderate	Moderate	Low - Mod- erate	Low - Mod- erate
Low	Low	Very Low	Low	Low	Very Low	Low
Moderate	Very Low	Very Low	Low	Very Low	Very Low	Very Low
Moderate	High	High	High	Low	Low	Low
Moderate	Low	Low	Low	Low	Low	Low
No	Yes	Yes	No	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes	Yes
N/A**	25	10	0.4	74	74	Based on Nitrogen Source
Low	Very Low	Very Low	Low	High	High	High





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