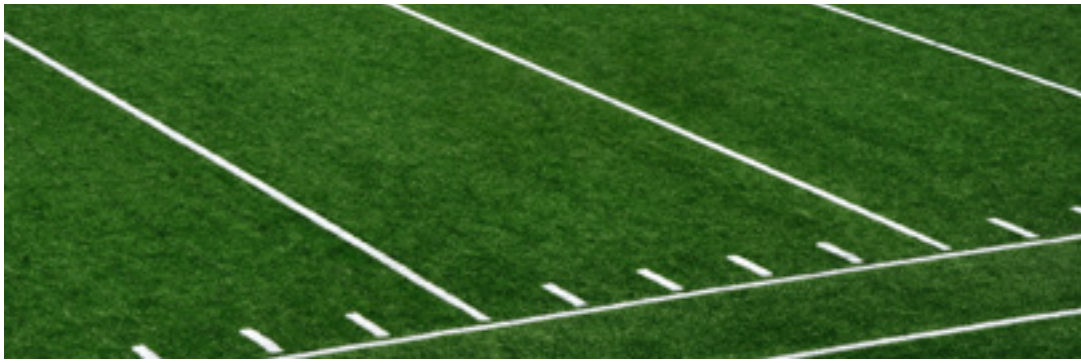
2021 PREMIUM PRODUCTS CATALOG



- HUMIC PRODUCTS
- PREMIUM NUTRITION
- FERTILIZERS
- HERBICIDES
- INSECTICIDES
- FUNGICIDES
- GROWTH REGULATORS
- SPREADERS

The Andersons®

ROOTED IN QUALITY, SERVICE, AND TECHNOLOGY

With a focus on quality, service, and technology, the products we bring to market are designed to make work easier for those who use them. From a broad range of fertilizers, control products, soil enhancers, and spreaders to patented products and technologies, we're committed to delivering next-generation solutions with the highest level of quality and customer service in the industry.

The Andersons, Inc. was founded in 1947 in Maumee, Ohio, and is currently an eight billion dollar corporation (NASDAQ:ANDE). As a worldwide supplier to the turf industry, The Andersons is a major manufacturer and marketer of patented dispersible granular products such as Contec DG® for putting greens, tees and other fine turf. In addition, The Andersons offers a full line of premium products designed for professional turf maintenance, establishment, and renovation including Foltec® SG soluble granule fertilizers, HCU™ humic coated urea, Humic DG™ humic acid dispersing granules, Black Gypsum DG® humic acid and gypsum dispersing granules, and Genesis Rx® complete fertilizer and soil amendment.

The Andersons, Inc. also includes business groups that serve other markets including trade, ethanol, and rail.

For more about The Andersons, visit www.AndersonsPlantNutrient.com.

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Rates on these products may vary with use.
Consult product label for your particular use.

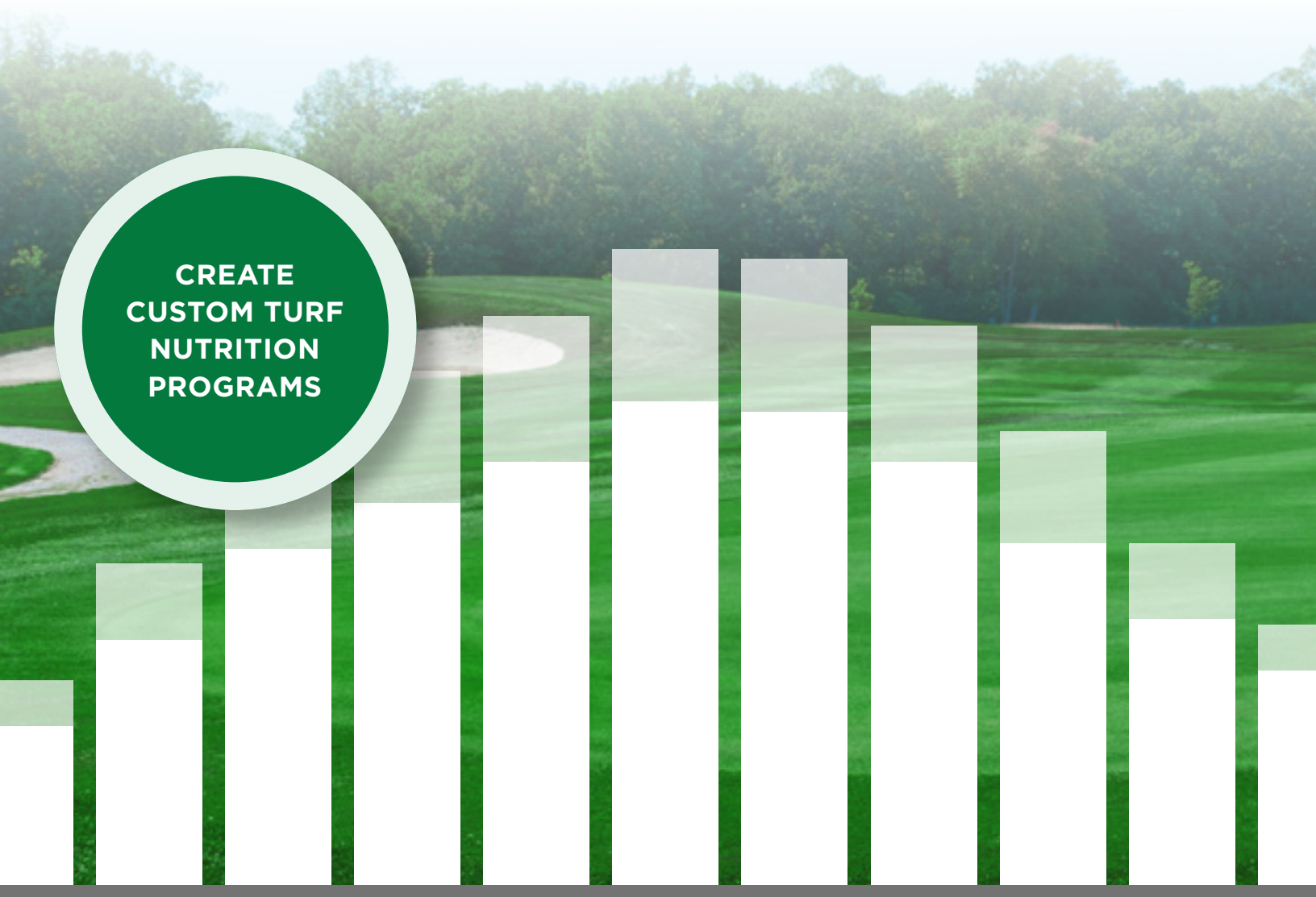
STAY CONNECTED: @AndersonsTurf AndersonsPro

Click on this icon on any page to return to the table of contents.

NEW AND IMPROVED

TNT®

TURF NUTRITION TOOL



The Turf Nutrition Tool (TNT) is a web-based platform that allows turf managers to create custom nutrition programs and model the nitrogen release of many of our most popular granular and foliar products.

This latest version of the TNT has been completely reimagined to include:

- A mobile-friendly tool accessible from any device
- A dramatically-improved user experience
- The ability to create, save, and share custom turf nutrition programs
- New product listings (Contec DG® – Gen 3, Foltec® SG, HCU™ – Humic Coated Urea, etc.)

NITROGEN SOURCES

THE ANDERSONS' PROPRIETARY NITROGEN SOURCE

HCU™ (HUMIC COATED UREA)

This proprietary technology from The Andersons produces a cost-effective 44-0-0 nitrogen granule that is bonded with potassium humate. These clean, spherical, free-flowing granules are 100% soluble for use in both liquid and dry applications. The humic coating aids in the prevention of nitrogen loss from volatilization better than or equal to industry standard enhanced efficiency fertilizers. Additionally, the humic coating serves as a great carbon source to help soil microbiology flourish.

STABILIZED NITROGEN

This category of enhanced efficiency fertilizers (EEFs) has no coating applied to the prill similar in the case of slow release technology. EEFs are fertilizers which contain a plant nutrient in a form which delays its availability for plant uptake and use. However, rather than a coating like their slow release counterparts, these products utilize a nitrogen release inhibitor that is applied to the fertilizer (AAPFCO, 2017).

FORTIFY®-N

Fortify-N features dual-nitrogen stabilizer technology which minimizes risk from environmental losses such as volatilization, leaching, and denitrification. Compared to an untreated urea, this technology allows for better utilization of nitrogen; it enhances performance, protects the environment, and improves cost-in-use.

ORGANIC NITROGEN SOURCES

BIOMEND®

Biomend features all natural and organic nutrient sources and contains no biosolids, manure or wastewater byproducts. Utilizing a plant-based soybean meal for a portion of the nitrogen source, Biomend does not emit any odor like biosolid/poultry fertilizers.

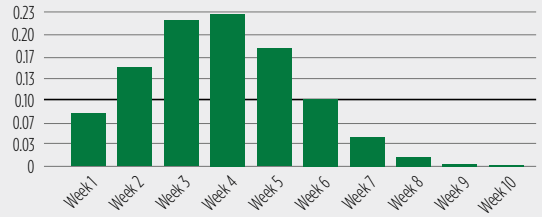
BIOSOLIDS

Biosolids consist of both quick and slow release forms of nitrogen. These products provide both quick greening and longer-term nitrogen feeding.

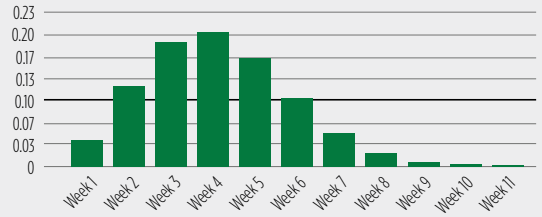
INNOVA®

This fertilizer source is 100% plant derived and OMRI approved, making it an ideal addition to organic fertility programs. This product is odor free and contains no biosolids, manure or wastewater byproducts.

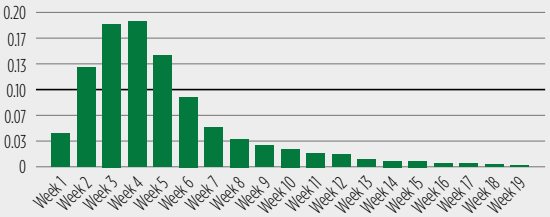
TURFGRASS RESPONSE TO HCU™



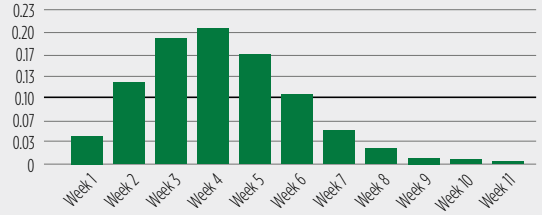
TURFGRASS RESPONSE TO FORTIFY®-N



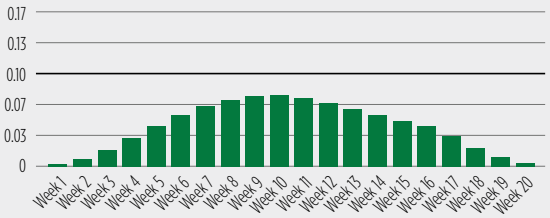
TURFGRASS RESPONSE TO BIOMEND®



TURFGRASS RESPONSE TO BIOSOLIDS



TURFGRASS RESPONSE TO INNOVA®



You work hard to create high-quality turf and beautiful landscapes for your customers, and we work hard to provide technology that makes your job easier. Enhanced efficiency fertilizer products allow increased plant nutrient availability and reduce the potential for nutrient loss into the environment. Enhanced efficiency products are any that are defined as "having slow release and stabilized characteristics" (AAPFCO, 2017).

SLOW RELEASE NITROGEN

The Association of American Plant Food Control Officials (AAPFCO) defines slow or controlled release fertilizers as "containing a plant nutrient in a form which delays its availability for plant uptake and use after application". (AAPFCO, 2017).

MUTECH®

This controlled release nitrogen source derived from methylene urea provides extended release for our longest duration fertilizers. Methylene urea provides steady, predictable nitrogen release regardless of your climate. MUtech fertilizers have a low salt index which means there is low burn potential.

POLY-S®

This premium slow release fertilizer is a polymer-coated, sulfur-coated urea which provides extended nitrogen release. Poly-S contains a high percentage of sulfur in the coating of every prill.

NS-54™

This premium slow release fertilizer is a polymer-coated, sulfur-coated urea which provides extended nitrogen release. NS-54 contains a modestly higher percentage of nitrogen than traditional PCSCU due to an advanced polymer coating combined with a lower sulfur coating weight.

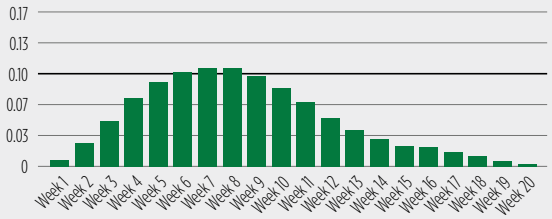
EXTEND™

This slow release fertilizer technology is a polymer-coated urea (PCU) which contains no sulfur. Extend's long release characteristics, paired with great economics in use, make it an ideal nitrogen source for large turf areas such as golf course fairways and parks.

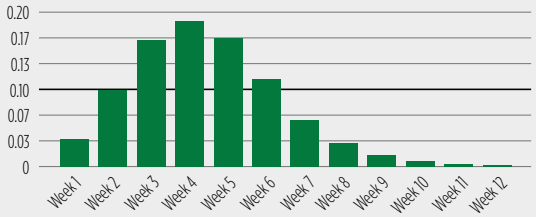
LN3

The only liquid, controlled-release technology in the slow release category, LN3 is a nutrient-based urea triazone technology. LN3 is a cyclic compound which is chemically very stable, so a more predictable release can be expected when microbial activity breaks it down, compared to traditional methylated N sources.

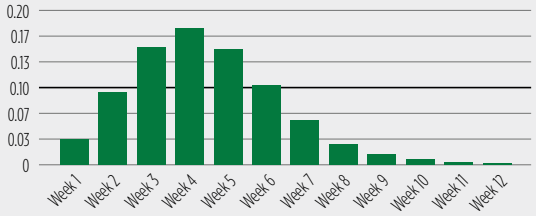
TURFGRASS RESPONSE TO MUTECH®



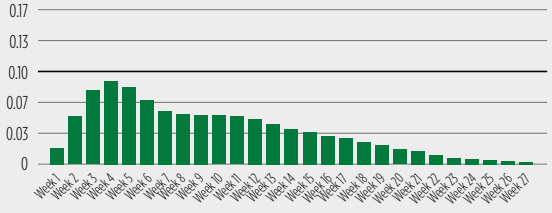
TURFGRASS RESPONSE TO POLY-S®



TURFGRASS RESPONSE TO NS-54™



TURFGRASS RESPONSE TO EXTEND™



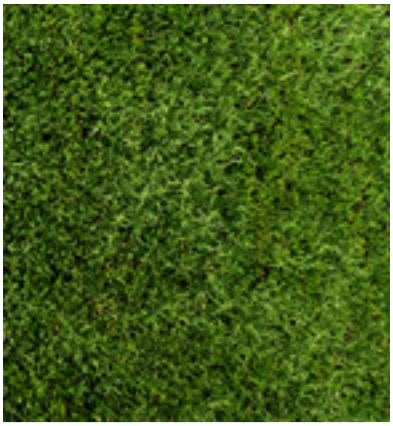
GRANULAR N TURF RESPONSE — TARGET N

All graphs represent a release rate of the respective technology applied on May 7th at 1 lb. N/1000 sq. ft. The designated USDA climate zone for these graphical representations was region 5b.

Visit TurfNutritionTool.com to see how these nitrogen sources fit into your nutrition program.

COMPLETE TURF HEALTH BEGINS WITH A+

The A+ Turf Health System integrates complete nutrition with an exclusive turf programming tool, all supported by patented technology and a performance guarantee.



Foltec® HCU™ UltraMate®

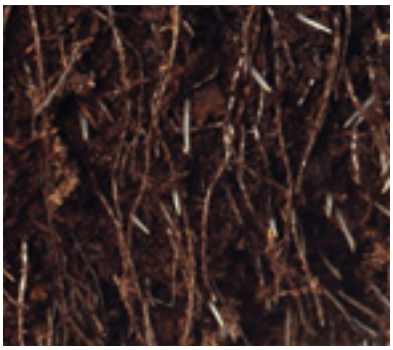
Designed to complement soil applied baseline nutrition, Foltec products provide a complete foliar nutrition package including N, P, K, secondary and minor elements and other essential bio-enhancements.

Humic Coated Urea (HCU) granules represent a sensible approach to nitrogen application, combining urea and humic acid in a 100% soluble granule.

UltraMate contains a combination of humic and fulvic acids which provide a variety of soil and plant health benefits. These carbon based organic acids allow plants to utilize applied N, P, and micronutrients more efficiently.

ContecDG® SmartPhosDG GenesisRx®

Roots and root hairs extend through the soil and soil solution to take up plant nutrients. Applications of Contec DG, Genesis Rx, and SmartPhos DG quickly disperse into the soil and maximize nutrient contact and uptake by roots. This enhances nutrient efficiency and provides flexibility in application rates.



HumicDG™ HumicDG™ CharX™

BlackGypsumDG®

Turfgrass managers typically encounter both sand based/constructed growing systems and native soils. Humic DG, Humic DG CharX, and Black Gypsum DG are designed to improve soil structure, increase nutrient efficiency, and stimulate beneficial soil microbes. They are also effective in reducing the negative impact of soil sodium and salts often associated with poor quality irrigation water.

BASELINE NUTRITION

An essential component in developing an effective nutrition plan to maintain healthy turf.

MAXIMIZE
by creating a turf nutrition plan

CUSTOMIZE
nutrient applications during the growing season

DELIVER
precise and efficient turf nutrition

Baseline turf nutrition is considered to be a basic level of nutrition that helps the turf plant withstand the pressures of disease, insects, traffic, and stressful weather conditions. Granular nutrient applications ensure adequate levels of plant nutrition throughout the growing season.

Soil testing and plant tissue analysis are valuable tools that can be used to develop a turf nutrition plan.

Determining the correct amount and balance of nutrients is essential to turf health. Other factors to take into consideration are the turf type, the length of growing season, climatic conditions, and the amount of wear the turf is exposed to.

The timing and levels of turf nutrition depend on the type of turf being grown.

PRODUCT USE BASED ON SEASONAL GROWTH HABITS

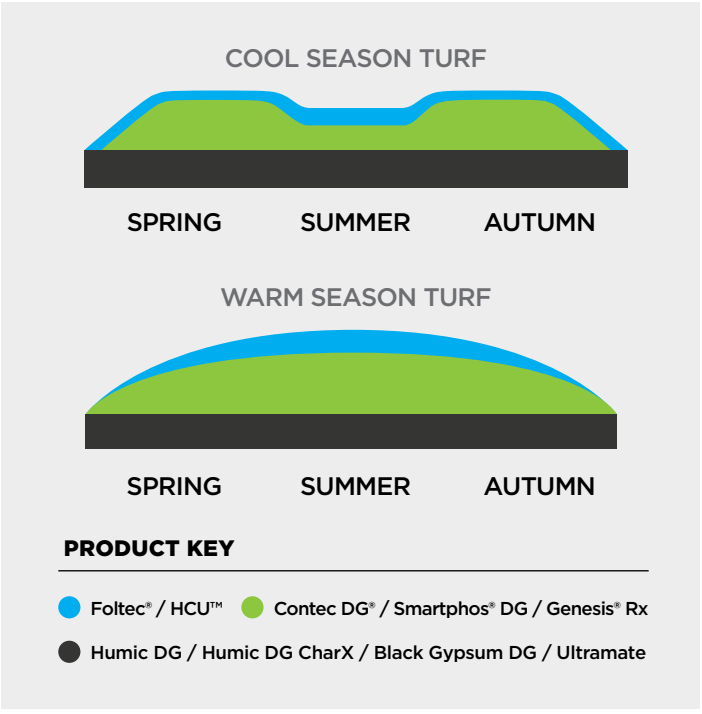
COOL SEASON TURF

Cool season turf generally requires a higher percentage of its nutrition to be delivered in the spring and autumn, with moderate needs during the summer months. A Baseline Turf Nutrition Plan includes soil-based granular applications throughout the growing season. Foliar nutrition is then applied to complement granular baseline nutrition, especially during the summer, when turf can be under stress.

WARM SEASON TURF

Warm season turf generally requires a higher percentage of its nutrition to be delivered during the period of late spring through early autumn. A Baseline Turf Nutrition Plan includes soil-based granular applications throughout the growing season. Foliar nutrition is then applied to complement granular baseline nutrition.

HUMIC DG™, HUMIC DG™ CHARX™, BLACK GYPSUM DG®, ULTRAMATE® LQ and **ULTRAMATE SG** can be used throughout the growing season to improve soil health and increase uptake and utilization of soil and applied nutrients.



HUMIC PRODUCTS

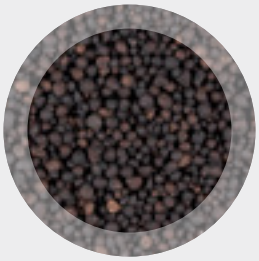
HUMIC SUBSTANCES

Humates, or humic substances, are a naturally-occurring, mined material. Like coal, humates occur as a result of the compression and degradation of nutrient-rich deposits of plant and animal remains. This produces a highly-reactive, carbon-rich material that serves as a powerful addition to a turf management program.

Humates make up 60-80% of soil organic matter.[1] This soil organic matter provides substantial benefit to both soil and plants, increasing nutrient holding capacity, water holding capacity, and stable aggregates.

We utilize the highest quality humates in a complete range of products designed to improve plant nutrient uptake, efficacy, and rooting capacity, which yields an increased tolerance to many environmental stressors (drought, temperature, traffic).

1.Brady, Nyle C, and Ray R Weil. The Nature and Properties of Soils. 14th ed., Pearson Education, 2008



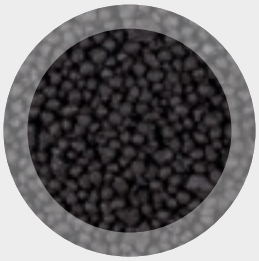
HCU™ 44-0-0
(HUMIC COATED UREA)

Granule

Dry or Spray Applied

2% Humic Acid
(A&L Method)

SGN 215



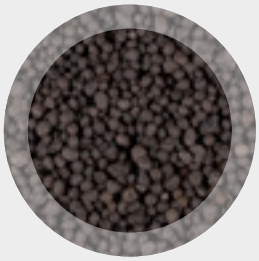
HUMIC DG™

Granule

Dry Applied

70% Humic Acid
(A&L Method)

SGN 75 or 240



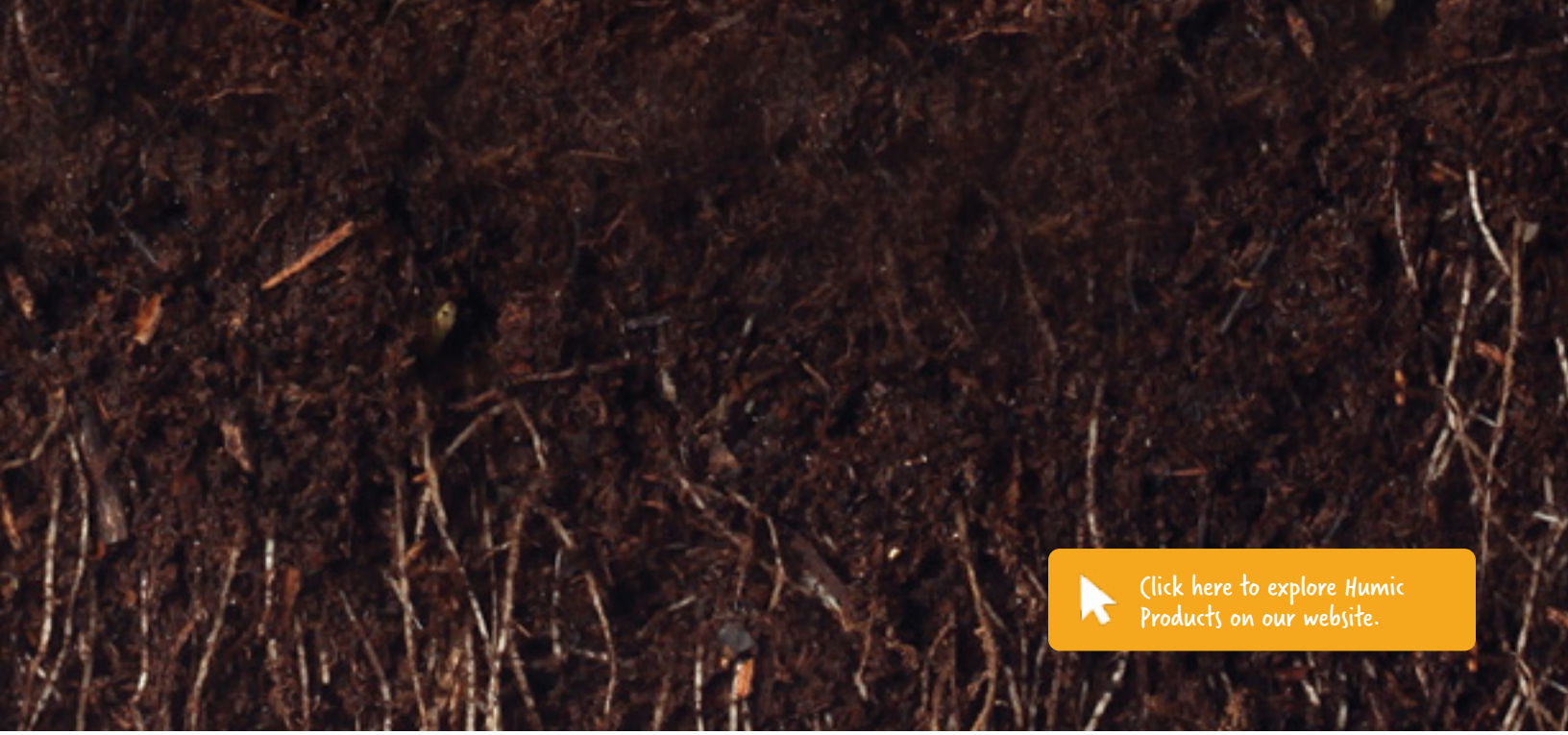
BLACK GYPSUM DG®

Granule

Dry Applied

10% or 21% Humic Acid
(A&L Method)

SGN 75 or 240



Click here to explore Humic Products on our website.

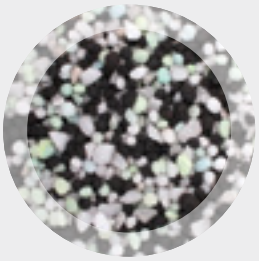
HUMIC DG™ CHARX™

Granule

Dry Applied

35% Humic Acid
(A&L Method)

SGN 200



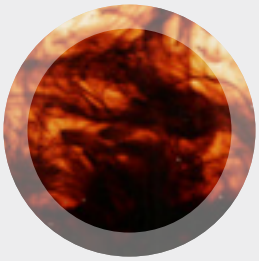
FERTILIZER + HUMIC BLENDS

Granule

Dry Applied

Humic Acid Varies

SGN 100-240



ULTRAMATE® LQ

Liquid

Spray Applied

12% Humic Acid
(A&L Method)

-

ULTRAMATE® SG

Soluble Granule

Spray Applied

70% Humic Acid
(A&L Method)

SGN 75

WHY HUMIC ACID?

Humic acid is a natural soil conditioner, organic chelator, and microbial stimulator that provides the following benefits:

- **Supplies an oxidized, soluble carbon source, leading to improvement in long-term soil pH**
- **Enhances efficiency and availability of applied nutrients**
- **Chelates soil micronutrients, increasing their availability**
- **Improves cation exchange capacity**
- **Enhances soil structure and biology**
- **Reduces water requirements by increasing water holding capacity and enabling better water penetration in the soil**

THE THREE HUMIC FRACTIONS

NATURALLY DERIVED BIO-ORGANIC CARBON SOURCES

Foliar Uptake Soil Uptake

Humates are composed of three major fractions: fulvic acids, humic acids, and humins. Each of these fractions has some similar and some unique physical and chemical properties that contribute to their effectiveness and complement fertilizer programs. Our products contain all three forms of humic substances, maximizing the product benefits.

FULVIC ACIDS are highly soluble and readily absorbed by leaves, making them well-suited for foliar application. Fulvic acids enhance the absorption of nutrients and the efficiency of plant metabolic reactions.

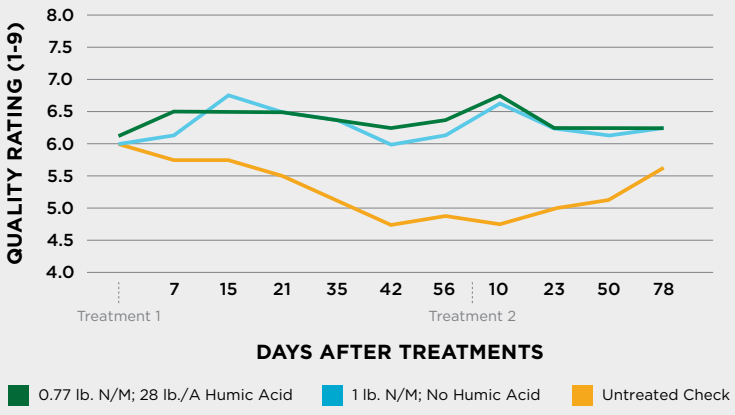
HUMIC ACIDS are moderately soluble. They have a high cation exchange capacity (CEC), which helps increase a soil's nutrient holding capacity. Humic acid molecules chelate many essential nutrients and help stimulate soil microbiology.

HUMINS are the least soluble form of humic substances. They contain high levels of carbon and have large nutrient holding capacity. Humins persist in soils for very long periods of time.

In addition to the three humic fractions, humic products utilizing The Andersons Dispersing Granule (DG) Technology contain a unique and powerful ingredient we call humic acid precursor. **HUMIC ACID PRECURSOR** contains a soluble form of organic carbon that releases into the soil as DG granules disperse. Through biochemical reactions, it is transformed into humic and fulvic acids, enhancing nutrient uptake and improving soil health.

PENN STATE UNIVERSITY

AVERAGE TURF QUALITY



Numerous research studies conducted by The Andersons and universities around the world have observed the positive impact of humic acid on nutrient efficiency. In studies conducted by Penn State University, The Andersons Humic DG™ was applied with reduced nitrogen fertility to Kentucky bluegrass at a 3" cut. The Humic DG treatment with reduced nitrogen fertility was compared to a treatment that received the full rate of nitrogen fertility but no Humic DG. For two years in a row, the same turf quality and color were observed throughout the study in plots treated with the full rate of nitrogen (1.00 lb N/1000 ft^2) and plots treated with Humic DG (28 lb/A) and a reduced rate of nitrogen (0.77 lb N/1000 ft^2).

HCU™

HUMIC COATED UREA

This proprietary technology from The Andersons produces a cost-effective 44-0-0 nitrogen granule that is bonded with potassium humate. Clean, spherical, free flowing granules are 100% soluble for use in both liquid and dry applications. HCU granules can be applied to all types of cool and warm season turf, landscape and nursery ornamentals, and specialty crops.

SPRAY APPLICATION RATES

NITROGEN RATE	PRODUCT		HUMIC ACID*	SUGGESTED MIN. SPRAY VOLUME
N / 1000 FT²	LBS./1000 FT²	LBS. / ACRE	LBS. / ACRE	GAL. / ACRE
0.10	0.23	10	0.20	30
0.25	0.57	25	0.50	40
0.33	0.75	33	0.70	40
0.50	1.14	50	1.00	40
0.75	1.70	74	1.50	60
1.00	2.27	99	2.00	80

BROADCAST APPLICATION RATES

NITROGEN RATE	PRODUCT		HUMIC ACID*
N / 1000 FT²	LBS. / 1000 FT²	LBS. / ACRE	LBS. / ACRE
0.75	1.70	74	1.50
1.00	2.27	99	2.00
1.25	2.84	124	2.50
1.50	3.41	149	3.00

**Equivalent to gallons/acre rate of 12% liquid humic acid.*

SPRAY APPLICATION

HCU granules completely solubilize when added to water and can be spray applied at nitrogen rates of 0.10 - 1.00 lbs. N/1,000 ft². To mix HCU granules for spray application, refer to the label for application rates, water volume, dilution, and mixing instructions. HCU granules can be mixed and added to the spray tank using industry standard practices including: pouring into the strainer basket at the top tank opening and running water over the granules to solubilize, preparing a bucket slurry mixture, adding granules through the spray tank inductor system, or preparing a solution in a mix batch tank system. The time required to solubilize HCU granules is reduced by using warm or hot water.

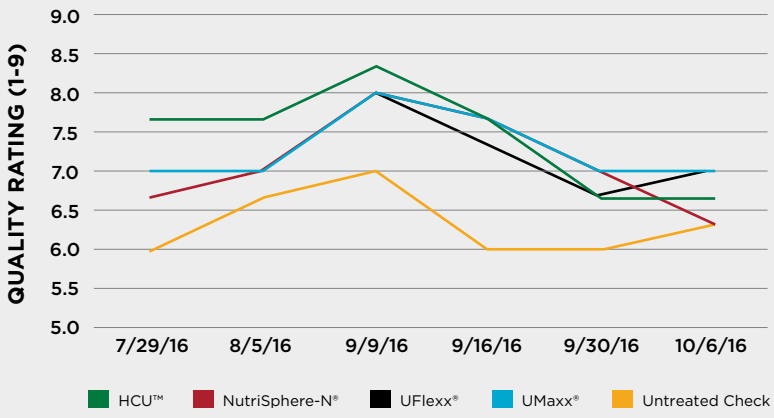
HCU granules are compatible with the most widely used control products for finely maintained cool and warm season turf. For peak product performance we recommend only tank mixing HCU with chelated iron (Fe) micronutrients such as Iron EDTA, HEDTA, etc. Mixing HCU with iron sulfate may potentially cause interaction issues within the tank mix. As always, we recommend a jar test prior to product mixing and application.

DRY SPREAD APPLICATION

Urea-humate fusion technology produces a clean, dry, dust-free, spherical HCU granule that is ideal for dry spread application. HCU granules can be applied through all types of granular spreading equipment including The Andersons Professional rotary spreaders, and larger scale broadcast spreaders such as Lely and Vicon models. Typical application rates range from 0.75 – 1.50 lbs N/1000 ft².

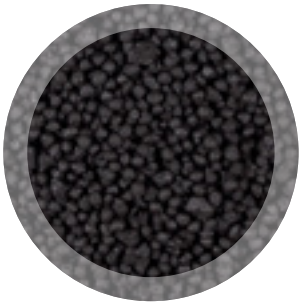
UNIVERSITY OF ARKANSAS

TURF QUALITY & COLOR



HCU granules provide turf quality and color that is comparable to current industry leading products. In a study conducted on Bermudagrass at the University of Arkansas, HCU granules were applied at a rate of 1.00 lb N/1000 ft² and compared to NutriSphere-N®, UMaxx®, and UFlexx® applied at the same rate. The Bermudagrass plots treated with HCU granules had turf quality and color statistically similar or greater than industry leading products for the 11 week duration of the study. Similar results were observed on Kentucky bluegrass at Penn State University.

Humic DG™ | 70% HUMIC ACID



Humic DG consists of a full spectrum of soil-nourishing humic substances including: fulvic acid, humic acid, humin, and humic acid precursor. Dispersing Granule (DG) Technology creates a dust-free, dry particle that rapidly disperses into thousands of microparticles upon contact with moisture. The dust free, rapidly-dispersing nature of Humic DG is in stark contrast to traditional screened humate products that are dusty and slower to break down.

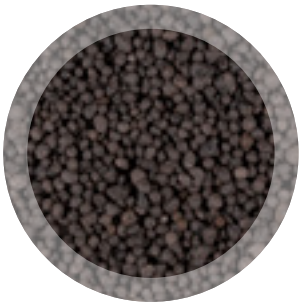
OMRI LISTED For Organic Use

Black Gypsum DG® | 10% OR 21% HUMIC ACID

It is common for turfgrass managers combating sodic soil conditions to utilize gypsum products to help leach sodium (Na+) from the rootzone and to improve soil structure. In past years, gypsum applications made with the anhydrate ($CaSO_4$) form of calcium (one water molecule), could take weeks to become available for plant uptake. This prolonged uptake process severely limited a turfgrass manager's ability to jumpstart the soil remediation process.

OMRI LISTED For Organic Use

The gypsum source in Black Gypsum DG is calcium sulfate dihydrate ($CaSO_4 2H_2O$). With two extra water molecules, this version is more water soluble than its anhydrite counterpart ($CaSO_4$). This improved solubility means that uptake into the turfgrass plant occurs much quicker. The dihydrate form of gypsum also provides increased application flexibility for year-round soil remediation versus standard anhydrate forms of gypsum.

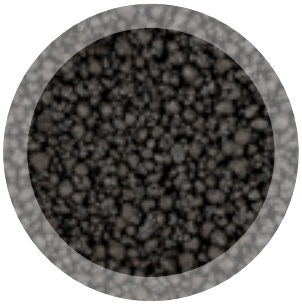


- Utilizes The Andersons' Dispersing Granule (DG) Technology
- Delivers humic acid in all forms (fulvic acid, humic acid, and humin)
- Provides humic substances containing carbon, giving soil microbes a food source and habitat, and allowing microbial populations to flourish
- Allows essential macro and micronutrients in the soil to become more plant-available
- Enhances the soil's ability to hold nutrients

Humic DG™ CharX™ | 35% HUMIC ACID

Humic DG CharX is a 50/50 blend of humic acid and biochar in a dust free, spherical and dispersible granule. The Andersons Dispersible Granule (DG) technology provides hundreds of thousands of small particles of humic acid and biochar after being exposed to water. The list of benefits that can be derived from using biochar is very similar to humic acid products like Humic DG. Both humic acid and biochar are reported to improve soil characteristics in the following capacities.

OMRI LISTED For Organic Use



- Enhancing nutrient efficiency, retention and cation exchange capacity
- Enhancing soil structure, porosity and water holding capacity
- Reduces potential nutrient leaching in soils
- Aids in amending acidic soils, due to biochar's pH of 7.0
- Provides a habitat and carbon food source for soil microorganisms

HUMIC PRODUCTS

Product	Humic Acid Content (A&L Method)	Analysis (%)				SGN	Use Rates on Turf (per acre)	Density (lbs/ft³)	Pkg. Wt.
		Calcium Sulfate Dihydrate ($CaSO_4 \cdot 2H_2O$)	Calcium (Ca)	Sulfur (S)	Soluble Potash (K_2O)				
HCU™ 44-0-0 ASP44HCU5	2%	-	-	-	-	215	Spray: 0.10-1.00 Dry: 0.75-1.5	46.0	50 lb
Humic DG™ ASPHUDGGRN4	70%	-	-	-	-	75	40 - 200 lbs	42.0	40 lb
Humic DG™ ASPHUDG40.1	70%	-	-	-	-	240	40 - 200 lbs	43.0	40 lb
Black Gypsum DG® ASPGY10HUDG5	10%	70.0	17.0	13.0	-	240	130 - 520 lbs	56.0	50 lb
Black Gypsum DG® ASPGYHUGRN5	21%	48.0	12.0	8.9	-	75	130 - 520 lbs	49.0	50 lb
Black Gypsum DG® ASPGYHUDG5	21%	48.0	12.0	8.9	-	240	130 - 520 lbs	49.0	50 lb
Humic DG™ CharX™ ASPBIOHU4	35%	-	-	-	-	210*	43 - 174 lbs	37.0	50 lb

FERTILIZERS WITH HUMIC DG™

Product	Feature	SGN	Typical Rates			Sources		Other Nutrients (%)							Density (lbs/ft³)	Pkg. Wt.
			Products Lbs/M	Nutrients Lbs/M	Humic DG Lbs/Acre	P	K	Fe	Mg	Mn	Cu	Zn	Ca	S		
10-18-12 + 23% Humic DG™ ASP105HUWM5.40	50% MUtech®	100	4.0	0.72 P	40	MAP	SOP	0.5	-	0.05	0.05	0.05	-	4.1	50.9	50 lb
13-0-3 + 11.5% Humic DG™ ASP133HU5.40	25% NS-54™ 52% Biosolids	240	4.0	0.52 N	20	-	SOP	1.0	-	-	-	-	1.6	3.7	48.8	50 lb
16-0-8 + 19% Humic DG™ ASP16WHUFE5.40	50% MUtech®	150	4.68	0.75 N	38	-	SOP	2.0	-	-	-	-	-	-	57.4	50 lb
18-0-7 + 20% Humic DG™ ASP189HU5.40 **While Supplies Last**	50% NS-54™	215	4.59	0.83 N	40	-	SOP	-	-	-	-	-	-	2.3	54.0	50 lb
22-0-8 + 25.2% Humic DG™ ASP22WHU5.40	80% MUtech®-L	150	3.65	0.80 N	40	-	SOP	-	-	-	-	-	-	-	49.8	50 lb

FERTILIZERS WITH BLACK GYPSUM DG® & HCU™

Product	Feature	SGN	Typical Rates			Sources		Other Nutrients (%)							Density (lbs/ft³)	Pkg. Wt.
			Products Lbs/M	Nutrients Lbs/M	Black Gypsum DG Lbs/Acre	P	K	Fe	Mg	Mn	Cu	Zn	Ca	S		
22-0-4 with 50% HCU™ + 43% Black Gypsum DG® ASP22HCUBG5.1	50% of N from HCU 43% Black Gypsum DG	240	4.0	0.88 N	74	-	SOP	-	-	-	-	-	7.2	6.9	49.3	50 lb
9-12-6 with 37% HCU™ + 36% Black Gypsum DG® and SmartPhos P ASP9HCUBG5	37% of N from HCU 36% Black Gypsum DG	240	4.0	0.48 P	63	MAP/ Stru-vite	SOP	1.0	2.0	-	-	-	6.1	6.7	54.6	50 lb

HUMIC LIQUID & SOLUBLE GRANULES

Product	Humic Acid Content (A&L Method)	Analysis (%)				SGN	Use Rates on Turf (per acre)	Pkg. Wt.
		Calcium Sulfate Dihydrate ($CaSO_4 \cdot 2H_2O$)	Calcium (Ca)	Sulfur (S)	Soluble Potash (K_2O)			
UltraMate® LQ AG14010W	12%	-	-	1.0	3.0	N/A	1 - 1.5 gal	2 x 2.5 gal case
UltraMate® SG ULTRAMATE SG.1	70%	-	-	6.0	14.0	75	1.5 - 2.0 lbs	30 lb

*SGN size can range from 180-240 SGN depending on raw material supply and sizing

PREMIUM NUTRITION

HIGH-PERFORMANCE TURF NUTRITION

The Andersons advanced granule technologies provide a complete approach to efficient granular and sprayable turf nutrition and plant health.

DG (Dispersible Granule) products quickly disperse into thousands of micro particles upon contact with water. This provides a more efficient nutrient application because DG particles move quickly through the turf canopy and into the root zone where they can be taken up by the plant. With DG technology you can be assured of optimized turf nutrition and improved playing conditions. The Andersons provides a wide range of DG nutrition products that include Contec DG®, SmartPhos® DG, Genesis Rx® and Genesis Rx Zeolite+.

Foltec SG is innovative foliar technology that provides complete foliar turf nutrition and eliminates the need for complex tank mixes. Each Foltec SG product is a combination of dry soluble granules that contain N-P-K and chelated micronutrients along with UltraMate® SG (potassium humate) and sea plant extract for increased nutrient efficiency and maximum health benefits. Foltec SG is packaged in easy to use, resealable, foil-lined bags.

CONTEC DG®

Dispersible Granules

Dry Applied

Over 20 different formulations

SGN 75-150

SMARTPHOS® DG

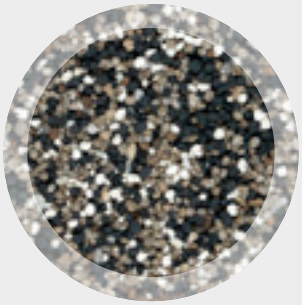
Dispersible Granules

Dry Applied

Slow release phosphorus

SGN 75

Click here to explore Premium Products on our website.



GENESIS RX®

Dispersible Granules

Dry Applied

5-7-5 + secondary and micronutrients and Humic DG

SGN 100

GENESIS RX® ZEOLITE+

Dispersible/Sized Granules

Dry Applied

3-4-3 + Humic DG™, Zeolite and beneficial microorganisms

SGN 100

FOLTEC® SG

Soluble Granules

Spray Applied

N-P-K, chelated micros, UltraMate® SG and seaplant extract

Convenient, easy to use packaging

HIGH-PERFORMANCE TURF NUTRITION

The combination of Contec DG® - Gen 3 dispersing granules and Foltec® SG soluble granules provides ideal premium nutrition for greens, tees, sports turf, and other fine turf. With that in mind, we created our High-Performance Greens Nutrition Programs, making it easy to visualize and build a properly-balanced, season-long program.

CONTEC DG - GENERATION 3

Gen 3 represents the latest evolution of the Contec DG product range. Featured on select products, these granules are easy to spread and easy to see, saving turf managers both time and money. Gen 3 granules are completely homogeneous, allowing for a consistent spread pattern. The granules also stand out against turf, making it easy to see where product has been applied, decreasing the possibility of over-application.

Available Gen 3 Grades: 18-9-18, 17-0-17, 6-0-12, 12-3-12

For more information on Contec DG, see page 20.

FOLTEC SG

Foltec SG is an innovative foliar nutrient technology utilizing a proprietary combination of dry, 100% soluble nutrient granules that quickly solubilize in the spray tank. Each Foltec SG product contains a specific N-P-K ratio along with essential micronutrients, UltraMate SG (humate/carbon) and sea plant extract. Packaged in resealable, foil-lined bags with easy-open tear strips to save time and effort, Foltec SG truly allows you to spray smarter.

For more information on Foltec SG, see page 26.

Get your High-Performance Greens Nutrition Programs for cool and warm season turf at **AndersonsPlantNutrient.com/Turf**

SPRAYABLE FAIRWAY NUTRITION, REDEFINED.

Combining HCU™ and Foltec® SG Minors creates an ideal tank mix of nitrogen, humic acid, and minor elements and delivers exceptional performance with strong economics in use.

HCU - HUMIC COATED UREA

HCU granules represent a sensible approach to nitrogen application, combining urea and humic acid in a 100% soluble granule. While providing equal or better performance than leading stabilized nitrogen products, HCU granules also offer strong economics in use.

For more information on HCU, see page 13.

FOLTEC SG MINORS

Foltec SG Minors is a proprietary combination of dry, 100% soluble granules that contains selected secondary and minor elements, along with sea plant extract and humate. With easy to understand coverage and application rates, Foltec SG truly allows you to spray smarter.

For more information on Foltec SG, see page 26.

Contec DG®

Patented. Proven. Guaranteed.

Contec DG combines premium turf nutrients and our patented Dispersing Granule Technology into a homogenous granule designed to optimize granular applied turf nutrition.

INTRODUCING CONTEC DG GENERATION 3

EASY TO SPREAD. EASY TO SEE.

Gen 3 represents the latest evolution of the Contec DG product range. Gen 3 granules are easy to spread and easy to see, saving turf managers both time and money. Gen 3 granules are dust-free and completely homogeneous, allowing for a consistent spread pattern. The granules also stand out against turf, making it easy to see where product has been applied and decreasing the possibility of over-application. Gen 3 products feature the same patented Dispersing Granule (DG) Technology found in all Contec DG products, which allows for a firmer, residue-free playing surface with less downtime.

THE EVOLUTION

For more than a decade, Contec DG has been the industry leader in dry-applied greens and tees nutrition. Over that same period, we have worked to continually refine the product, advancing formulations, color and physical characteristics. Gen 3 Technology represents the finest granular product we have ever produced, designed to provide the highest-quality nutrition and the most efficient user experience.

2007 (GEN 1) **2010** (GEN 2) **2018** (GEN 3)

A MORE EFFICIENT USER EXPERIENCE

- Lighter in color, Contec DG is easy to see and spread
- Allows for a consistent spread pattern
- Makes it easy to see where product has been applied
- Decreases over-application
- Saves time and money

Gen 3 Technology is featured on select Contec DG greens and fairways products: 17-0-17, 18-9-18, 28-0-6, 6-0-12, and 12-3-12. For product listings see pages 14-15.

ENHANCED NUTRIENT DISTRIBUTION

PATENTED DISPERSING GRANULE TECHNOLOGY

Upon contact with water, each granule disperses into thousands of micro particles that quickly move through the turf canopy into the root zone.

IMPROVED PLAYING CONDITIONS

LESS INTERRUPTION OF PLAY

Contec DG requires less watering to disperse the nutrient granules, allowing for less downtime and a drier and firmer playing surface.

NO STICKY RESIDUE

Contec DG melts into the turf canopy. The result is no sticky fertilizer residue which can accumulate on shoes, balls, and equipment.

OPTIMIZED NUTRITION

Contec DG is designed to optimize granular turf nutrition by combining premium nutrients with our Dispersing Granule Technology, minimizing mower pickup and delivering more fertility for the plant.

AGRONOMIC ADVANTAGES

DISPERSIBILITY

Because Contec DG is homogenous and disperses into thousands of micro particles, turf managers have the ability to apply Contec DG at low rates and still get complete nutrient coverage without speckling.

FORMULATIONS

With over twenty different formulations, Contec DG is designed to meet a wide variety of turf and soil conditions. Refer to the Product/Temperature Use Guide on page 15 for optimum temperatures for applications of Contec DG products.

ZERO NITROGEN PRODUCTS

There are times when a turf manager may need specialty nutrient applications that do not contain nitrogen. The following Contec DG products have been designed with this in mind: Mag-tec™ 0-0-12, Kal-tec® 0-0-13, and 0-0-25.

NUTRIENT SOURCES

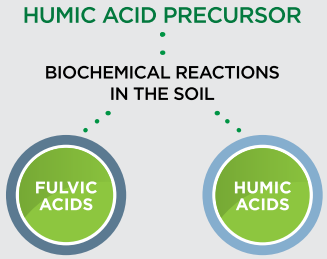
Contec DG is formulated using the safest and highest quality nutrient sources.

- Contec DG products have variable amounts of slow and quick release nitrogen, depending on the formulation.
- Phosphorus, potassium, calcium, and magnesium sources are found in the Contec DG product list.
- Micronutrients are sulfate-based for quick and efficient nutrient response.

THE CARBON COMPONENT OF CONTEC DG

HOW DOES HUMIC ACID PRECURSOR WORK?

Humic acid precursor contains a soluble form of organic carbon which releases into the soil as Contec DG granules disperse. Through biochemical reactions in the soil, humic acid precursor is transformed into humic and fulvic acids which help chelate nutrients in the soil. The optimum rate of humic acid precursor is applied when Contec DG is applied at label rates.



GRANULAR NUTRITION

CONTEC DG®

Analysis	Description	Typical Rates		N Composition (%)				Sources		Other Nutrients (%)							Bio-Enhancements			Pkg. Wt.
		Products Lbs/M	Nutrients Lbs/M	Amm N	Urea N	WIN	WSN	P	K	Fe	Mg	Mn	Cu	Zn	Ca	S	Amino Acids	Humic Acid	Humic Acid Precursor	
SGN 75																				
0-0-12 Mag-tec™ CDGK12M4.1	24% Mg	4.2 - 8.4	0.5 - 1.0 K	-	-	-	-	-	K-Mag	-	24.0	-	-	-	-	12.0			•	40 lb
0-0-13 Kal-tec® CDGK13M4	9.2% Ca, L-amino acids	3.8 - 7.6	0.5 - 1.0 K	-	-	-	-	-	SOP K-Mag	-	2.0	1.5	-	-	9.2	14.9	•		•	40 lb
0-0-25 CDGK25M4.1	Mn, Mg, L-amino acids	2.0 - 4.0	0.5 - 1.0 K	-	-	-	-	-	SOP K-Mag	-	4.0	3.0	-	-	-	13.7	•		•	40 lb
5-5-20 CDG54HUWM5	93% MUtech®, 3.4% Humic Acid	2.5 - 6.25	0.5 - 1.25 K	1.75	0.48	1.14	1.63	MAP	SOP K-Mag	-	2.30	1.2	-	-	-	10.7		•	•	50 lb
6-0-12 CDG6M40.1	Mn, Mg **GEN 3**	2.1 - 4.2	0.25 - 0.5 K	6.0	-	-	-	-	SOP K-Mag	-	2.0	5.0	-	-	-	13.5			•	40 lb
7-14-14 CDG72WM4	30% MUtech®	3.6 - 7.2	0.5 - 1.0 P, K	4.9	0.3	0.8	1.1	MAP	SOP K-Mag	-	2.0	-	-	-	-	9.9			•	40 lb
9-0-18 CDG95WM4	65% MUtech®	2.8 - 5.6	0.5 - 1.0 K	3.2	0.9	2.1	2.9	-	SOP	0.3	-	6.0	-	-	-	6.1			•	40 lb
9-4-9 CDG9W4	50% MUtech®	2.8 - 11.2	0.25 - 1.0 N, K	4.2	0.7	1.8	2.4	Bone Meal	SOP	-	-	-	-	-	4.3	7.8	•	•	•	40 lb
10-5-20 CDG105WM4	50% MUtech®	2.5 - 5.0	0.5 - 1.0 K	5.0	0.8	1.8	2.5	MAP	SOP K-Mag	0.3	0.5	0.5	-	-	-	12.0			•	40 lb
11-8-9 CDG11WM4	43% MUtech® 1.25% Humic Acid	2.3 - 9.1	0.25 - 1.0 N	6.3	0.42	1.78	2.5	Struvite	SOP	0.2	2.8	0.2	-	-	-	8.7		•	•	40 lb
12-3-12 CDG12M40	L-amino acids **GEN 3**	4.2 - 8.4	0.5 - 1.0 N, K	12.0	-	-	-	MAP	SOP	0.3	-	0.5	-	-	-	17.0	•		•	40 lb
12-24-8 CDG126WM4.2	50% MUtech®	2.1 - 4.2	0.5 - 1.0 P	6.0	0.9	2.1	3.0	MAP	SOP	0.3	-	0.5	-	-	-	4.1			•	40 lb
13-0-26 CDG131W4.1	100% MUtech®	1.9 - 3.8	0.5 - 1.0 K	-	2.0	4.6	6.5	-	SOP	-	-	-	-	-	-	8.8			•	40 lb
14-7-14 CDG141WM4	60% MUtech®	3.6 - 7.2	0.5 - 1.0 N, K	5.6	1.3	2.9	4.2	MAP	SOP	0.3	-	0.1	-	-	-	9.6			•	40 lb
15-0-15 CDG157WM4	50% MUtech®	3.3 - 6.6	0.5 - 1.0 N, K	7.5	1.1	2.6	3.8	-	SOP	0.3	-	0.3	-	-	-	13.7			•	40 lb
17-0-17 CDG178WM40	50% MUtech® **GEN 3**	2.9 - 5.8	0.5 - 1.0 N, K	5.3	4.5	3.0	4.2	-	SOP	0.5		0.25	-	-	-	11.8			•	40 lb
18-0-5 CDG1813WM4	75% MUtech®	2.8 - 5.6	0.5 - 1.0 N	4.5	2.0	4.7	6.8	-	SOP	-	-	7.0	-	-	-	6.8			•	40 lb
18-0-18 CDG1811WM4	60% MUtech®	2.8 - 5.6	0.5 - 1.0 N, K	3.6	5.3	3.8	5.4	-	SOP	0.3	-	0.1	-	-	0	10.2			•	40 lb
18-3-18 CDG1816W4	93% MUtech®	2.8 - 5.6	0.5 - 1.0 N, K	1.3	2.5	5.9	8.4	MAP	SOP	-	-	-	-	-	-	6.9			•	40 lb
18-9-18 CDG181WM40	60% MUtech® **GEN 3**	2.8 - 5.6	0.5 - 1.0 N, K	4.2	4.7	3.8	5.4	MAP	SOP	0.3	-	0.1	-	-	-	8.6			•	40 lb
19-0-15 CD1919WM4.2	100% MUtech® + micros	2.6 - 5.2	0.5 - 1.0 N	-	2.3	6.9	9.9	-	SOP K-Mag	0.5	1.0	.05	.05	.05	-	6.6			•	40 lb

Analysis	Description	Typical Rates		N Composition (%)				Sources		Other Nutrients (%)							Bio-Enhancements			Pkg. Wt.
		Products Lbs/M	Nutrients Lbs/M	Amm N	Urea N	WIN	WSN	P	K	Fe	Mg	Mn	Cu	Zn	Ca	S	Amino Acids	Humic Acid	Humic Acid Precursor	
SGN 75-100 - SPECIALTY FERTILIZERS & SOIL AMENDMENTS																				
5-7-5 Genesis Rx® ASP5HUM5.1	49% MUtech®, 21.5% Humic DG™ SGN 75	5.0 – 30.0	0.25 - 1.5 N, K	1.86	1.05	0.86	1.23	Struvite /MAP	SOP	0.9	3.1	0.5	0.01	0.01	3.5	6.4		•	•	50 lb
3-4-3 Genesis Rx® Zeolite+ ASP3HUWZ5	50% MUtech®, 10.8% Humic DG™ 50% Zeolite SGN 75	10.0 - 20.0	0.4 - 0.8 P	1.08	0.64	0.53	0.75	Struvite /MAP	SOP	0.45	1.7	0.24	-	-	1.0	2.8		•	•	50 lb
4-22-0 SmartPhos® DG ASP4SPMGDG4	8% Mg SGN 75	2.3 - 7.0	0.5 - 1.5 P	4.0	-	-	-	Struvite	-	-	8.0	-	-	-	-	-			•	40 lb
DG Gypsum™ AGDGGYP50.40	SGN 75	6.0 - 25.0	-	-	-	-	-	-	-	-	-	-	-	-	21.0	16.0			•	50 lb
DG Lime™ AGCDGLIME5.40	SGN 100	2.0 - 20.0	-	-	-	-	-	-	-	-	4.0	-	-	-	30.0	-			•	50 lb
SGN 150																				
18-24-5 CDG186W5	35% MUtech®	2.1 - 4.2	0.5 - 1.0 P	4.8	7.8	2.2	3.2	MAP	SOP	-	-	-	-	-	-	1.7			•	50 lb
20-0-16 CDG202W5	100% MUtech®-M	2.5 - 6.3	0.5 - 1.25 N	-	2.8	9.1	8.1	-	SOP	-	-	-	-	-	-	5.4			•	50 lb
24-0-10 CDG2424W5.1	90% MUtech®-L	3.1 - 8.4	0.75 - 2.0 N	2.4	1.9	12.9	6.8	-	SOP	-	-	-	-	-	-	6.2			•	50 lb
28-0-6 CDG285W50	59% MUtech® **GEN 3**	1.8 - 5.4	0.5 - 1.5 N	7.6	6.0	6.9	7.5	-	SOP	-	-	-	-	-	-	10.7			•	50 lb
SGN 150 - COMBINATION PRODUCTS (CONTAINS PESTICIDE)																				
24-0-10 +0.103 Dimension® AGC2424WDGDM4	90% MUtech®-L 0.103% Dimension Herbicide	2.8 - 8.4	0.67 - 2.0 N	2.4	1.9	12.9	6.8	-	SOP	-	-	-	-	-	-	6.2			•	40 lb

Genesis Rx®

Applying fertilizer before, during, and after mechanical aerification all provide unique options for ensuring your turf recovers quickly. The Andersons has designed a line of Genesis Rx products that help determine the right fertility approach for your aerification program. See page 25 for Aerification Basics with Genesis Rx.

Genesis Rx 5-7-5 is a comprehensive fertility and soil amendment product specifically designed for:

AERIFICATION
RENOVATION
SODDING
CONSTRUCTION
SPRIGGING
SEEDING

Genesis Rx Zeolite+ 3-4-3 is a comprehensive fertility and soil amendment product specifically designed for:

AERIFICATION
RENOVATION
CONSTRUCTION
SEEDING

PRODUCT/TEMPERATURE USE GUIDE

Warm > 80°F/27°C
Moderate > 50°F/10°C
Cool < 50°F/10°C
Moderate All temps

PREMIUM AERIFICATION PRODUCTS

The process of mechanical aerification is a necessary management tool to improve airflow, nutrient and water movement through the soil profile. Following this destructive process, it is vital to jumpstart turfgrass recovery to a quality level necessary to resume play. Determining the right fertility approach for your aerification program can be a difficult task. Applying fertilizer before, during, and after mechanical aerification all provide unique options for ensuring quick turf recovery.

Black Gypsum DG®

Black Gypsum DG 21% is a unique soil amendment containing gypsum and humic acid in a homogenous dispersible granule. In past years, gypsum applications made with the anhydrite ($CaSO_4$) form of calcium (one water molecule) could take weeks to become available for plant uptake. This prolonged uptake process severely limited a turfgrass manager's ability to jumpstart the soil remediation process. The gypsum source in Black Gypsum DG 21% is calcium sulfate dihydrite ($CaSO_4 2H_20$). With two extra water molecules, this form is more water soluble than the anhydrite form ($CaSO_4$). This improved solubility means that uptake into the turfgrass plant occurs much quicker. The dihydrite form of gypsum also provides increased application flexibility for year-round soil remediation versus standard anhydrite forms of gypsum.

APPLICATION

Black Gypsum DG 21% is recommended for application after aerification as a top-dress treatment. The product is typically applied at 6 lbs. per 1000 ft² and can be mixed directly in with sand for easy application. For complete application instructions, consult product label.

Humic DG™

Humic DG is a powerful humic acid-based soil amendment perfect for application following aerification or other intensive maintenance practices. Its patented dispersing granules are the perfect counterpart for sand topdressing or in conjunction with other premium aerification products such as Genesis Rx 5-7-5. Humic DG contains all three humic fractions: fulvic acid, humic acid and humins. Humic DG also contains 10% humic acid precursor, a plant-based carbon source which aids in stress recovery.

Humic acid is a natural soil conditioner, organic chelator, and microbial stimulator that provides the following benefits:

- Supplies an oxidized, soluble carbon source, leading to improvement in long-term soil pH
- Enhances efficiency of applied nutrients and increases availability of soil phosphorus
- Retains soil moisture and enables better water penetration in the soil, resulting in reduced water requirement
- Chelates soil micronutrients, increasing their availability

APPLICATION

Humic DG is recommended for application after aerification as a top-dress treatment. Typical application rates range from 1-2 lbs. of product per 1000 ft² and can be mixed directly in with sand for easy application. For complete application instructions, consult product label.

DG Lime™ DG Gypsum™

DG Lime and DG Gypsum are premium specialty soil amendments. DG Lime provides plant-essential calcium and magnesium while increasing soil pH. In addition to calcium, DG Gypsum also provides sulfur, which stimulates soil microbiology while reducing soil pH. Both products feature Dispersing Granule Technology, which ensures quick breakdown of the granules with no residual left behind for potential mower pickup.

APPLICATION

DG Lime and DG Gypsum are recommended for application after aerification as a top-dress treatment. Typical application rates range from 25-40 lbs. per 1000 ft² and can be mixed directly in with sand for easy application. For complete application instructions, consult product labels.

Genesis Rx™ 5-7-5

Genesis Rx 5-7-5 is an all-in-one fertility and soil amendment product for easy application in conjunction with aerification. This product is a high-quality NPK fertility blend containing secondary and minor elements and utilizing our patented Dispersing Granule (DG) Technology. This unmatched combination provides turfgrass with the nutrition needed for recovery from aerification stress, along with sustained feeding. We further value engineered this product by adding 21.5% Humic DG™ (by weight) in the bag to deliver soil microorganisms the carbon-rich food source they desire.

APPLICATION

Genesis Rx is recommended for application following your normal aerification program. Typical application rates range from 5-20 pounds of product per 1000 ft². Product may be broadcast applied and placed into aerification holes via drag mat or broadcast applied in conjunction with sand topdressing. For complete application instructions, consult product label.

Genesis Rx® Zeolite+ 3-4-3

Genesis Rx® Zeolite+ 3-4-3 is a 50/50 physical blend of Genesis Rx 5-7-5 and zeolite granules with beneficial microorganisms. Genesis Rx Zeolite+ delivers balanced NPK, secondary and minor element fertility, soil enriching humic acid, zeolite granules and beneficial microorganisms all in one easy-to-apply product. This unique combination provides turfgrass with the nutrition necessary to recover from aerification. We further value engineered this product by adding in zeolite, humic acid, and a beneficial microorganism package. Zeolite which is a natural mined material has a high CEC, high porosity and excellent water retention capabilities. Humic acid is a naturally occurring substance that provides soil microorganism the carbon-rich food source they desire. Additionally, we have added a full spectrum of more than 2 dozen beneficial soil microorganisms.

APPLICATION

Genesis Rx Zeolite+ is recommended for application following aerification as a standard top-dress treatment. Typical application rates range from 10-30 pounds of product per 1000 ft². This product may be broadcast applied in conjunction with sand topdressing. For complete application instructions, consult product label.

AERIFICATION BASICS

1 PRODUCT / 1 APPLICATION

Genesis Rx® Zeolite+ 3-4-3

Apply at 30 lbs./1000 ft² following aerification

1 PRODUCT / 2 APPLICATIONS

Genesis Rx® 5-7-5

Apply at 7.5 lbs./1000 ft² two weeks prior to aerification

Apply at 7.5 lbs./1000 ft² following aerification

2 PRODUCTS / 2 APPLICATIONS

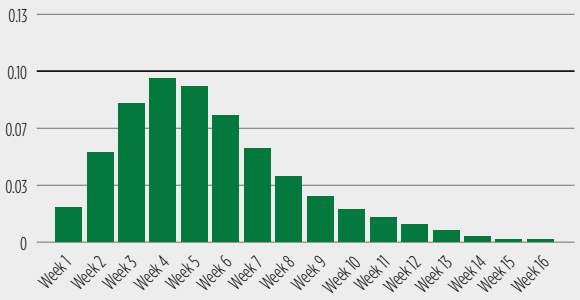
Genesis Rx® 5-7-5

Apply at 10 lbs./1000 ft² two weeks prior to aerification

Genesis Rx® Zeolite+ 3-4-3

Apply at 10 lbs./1000 ft² following aerification

TURFGRASS RESPONSE TO GENESIS RX® 5-7-5 AND GENESIS RX ZEOLITE+ 3-4-3



In this example, 10.0 lbs of Genesis Rx 5-7-5 were applied at Week 1 then 10.0 lbs of Genesis Rx Zeolite+ 3-4-3 were applied at Week 3.

MINORS FORMULATION AVAILABLE

Foltec SG

DIFFERENT BY DESIGN

SOLUBLE. SENSIBLE. SUPERB.

SOLUBLE

Foltec SG is an innovative foliar nutrient technology from The Andersons. Designed to be different, Foltec SG will change the way superintendents and turf managers think about complex foliar nutrition programs. Unlike industry standard liquid fertilizers consisting of numerous formulations and packaged in cumbersome plastic jugs, Foltec SG is a proprietary combination of dry Soluble Granules (SG) that quickly solubilize in the spray tank. This combination of soluble granules creates a complete nutrition product that reduces the need for a complex tank mix using a wide variety of products. Each Foltec SG product contains a specific N-P-K ratio along with essential micronutrients, UltraMate® SG and sea plant extract.

Foltec SG is available in four formulations which have been shown to fit the parameters of a typical foliar applied fertility program and include High N, High P, High K, and High N and K formulations.

APPLICATION

Foltec SG can be introduced into the spray tank through an inductor, or by removing the basket strainer and pouring Foltec SG directly into the spray tank, with adequate water and agitation. In field testing with self-contained spray rigs with typical agitation, Foltec SG solubilized quickly and thoroughly. Foltec SG products have also been shown to be compatible with many commonly used control products.

SENSIBLE

WHY PAY FOR WATER?

We are changing the way turf managers think about complex foliar nutrition programs with complete soluble granule nutrition, transportation and storage benefits, and easy-to-understand coverage and application rates.

Shipping Foltec SG's dry, 100% soluble granules saves on transportation costs compared to heavier, liquid products.

Dry product removes the potential for freezing, as Foltec SG does not become liquid until it is ready to be used.

Foltec SG's resealable, foil-lined bags eliminate the need to triple-rinse plastic jugs in preparation for disposal.

Foltec SG's thin, lightweight packaging eliminates the need to stockpile a collection of plastic jugs slated for the landfill.

SUPERB

N-P-K

Foltec SG is formulated in some of the most widely used agronomic N-P-K ratios: High N (24-0-8), High P (8-24-8), High K (8-0-24), and High N and K (16-0-16). These formulas can be easily combined to create your preferred N-P-K ratio.

MICRONUTRIENTS

Foltec SG utilizes chelated micronutrients in a proven ratio that maximizes availability, efficacy and performance.

ULTRAMATE® SG

UltraMate SG is The Andersons exclusive formulation of soluble sulfonated potassium humate which provides an oxidized source of carbon. UltraMate SG contains a combination of fulvic and humic acids which allows plants to utilize applied nutrients more effectively and efficiently. UltraMate SG also provides a wide range of soil benefits which include chelation of nutrients and increased uptake of soil N and P.

SEA PLANT EXTRACT

Foltec SG contains sea plant extracts derived from the most biologically active sea plant species in the world. They contain a complex array of organic and mineral compounds which include vitamins, sugars, enzymes and proteins that combine to promote improved wear and drought tolerance. Foltec SG N-P-K formulations utilize the proven 3:1 ratio of humic acid to sea plant extract for maximum plant health benefits based on research conducted at Virginia Tech University.[1]

COMPATIBILITY

Replicated bench studies with Foltec SG formulations show excellent compatibility with the most widely used control products for finely maintained bentgrass and bermudagrass turf. For more details, please visit FoltecSG.com.

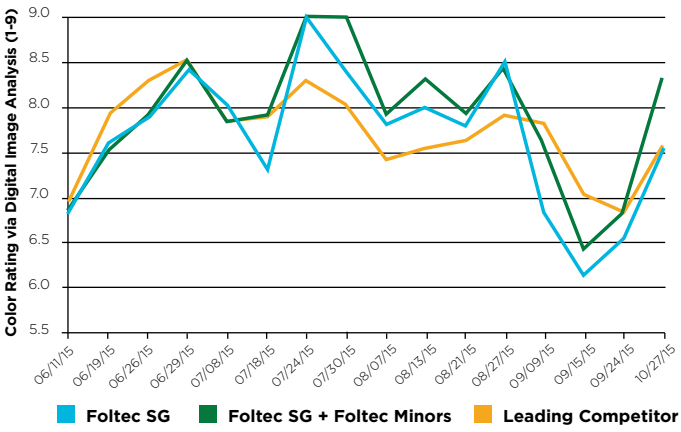
1. Zhang, Xunzhong, and E. H. Ervin. "Cytokinin-Containing Seaweed and Humic Acid Extracts Associated with Creeping Bentgrass Leaf Cytokinins and Drought Resistance." Crop Science 44.5 (2004).

REAL WORLD PERFORMANCE

Foltec SG has been developed and field tested to ensure maximum solubility and superb agronomic performance. Replicated testing at Michigan State University and the University of Arkansas confirms excellent performance on ultradwarf varieties of bentgrass and bermudagrass. When compared to a leading competitor's program, treatments that included Foltec SG had superior quality and color. Through this testing it was determined that Foltec SG provided exceptional greening of the turf canopy within a very short period of time following application. This quick green up surpassed the performance of the leading competitor and impressed the researchers at both universities. The results of the studies at Michigan State University and the University of Arkansas are shown below. For more specific information on field testing, please visit FoltecSG.com.

MICHIGAN STATE UNIVERSITY

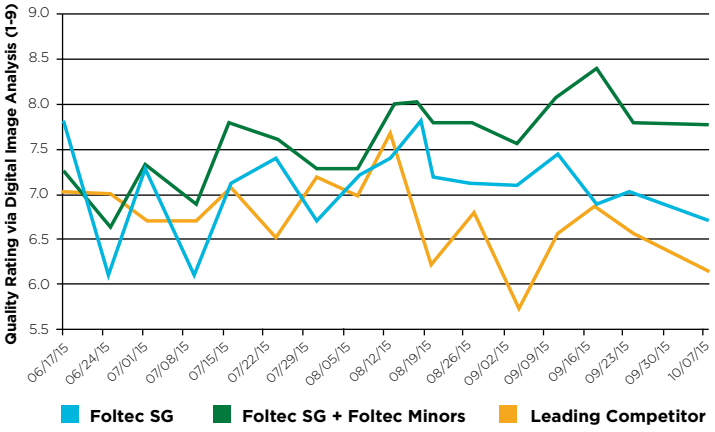
AVERAGE TURF COLOR — T1 BENTGRASS



» The decrease in color observed in late August through mid-September was due to high dollar spot pressure on all test plots.

UNIVERSITY OF ARKANSAS

AVERAGE TURF QUALITY — TIFEAGLE BERMUDAGRASS



FOLTEC® SG

Product	Delivers lbs of nutrient per M			Other Nutrients (%)					UltraMate® SG lbs/acre	Sea Plant Extract lbs/acre	Package	Case
	N	P	K	Mg	Fe	Mn	Cu	Zn				
RATES AND COVERAGE												
Foltec® SG 24-0-8 ASP24FSG3X13	0.075	0.000	0.025	0.0	1.0	0.5	0.07	0.1	0.5	0.16	13.6 lbs	3 x 13.6 lbs
Foltec® SG 8-0-24 ASPK8FSG6X6	0.025	0.000	0.075	0.5	1.0	0.5	0.07	0.07	0.5	0.16	6.8 lbs	6 x 6.8 lbs
Foltec® SG 8-24-8 ASP8FSG3X13	0.025	0.075	0.025	0.5	1.0	0.5	0.07	0.07	0.25	0.16	13.6 lbs	3 x 13.6 lbs
Foltec® SG 16-0-16 ASP16FSG3X13	0.05	0.000	0.05	0.5	1.0	0.5	0.07	0.07	0.5	0.16	13.6 lbs	3 x 13.6 lbs
Foltec® SG Minors ASPFSGMINOR10X2	-	-	-	3.0	4.7	3.5	0.15	0.34	0.028	0.028	2.25 lbs	10 x 2.25 lbs

SUGGESTED PRODUCT COMBINATIONS

Blend Name	Product Combinations	Delivers lbs of nutrient per M			UltraMate® SG lbs/acre	Sea Plant Extract lbs/acre	Package 13.6 lbs
		N	P	K			
Turf Foundation	**24-0-8 & 8-0-24**	0.100	0.000	0.100	1.0	0.32	1 each formula/acre
Aerification	**24-0-8, 8-0-24, & 8-24-8**	0.125	0.075	0.125	1.25	0.48	1 each formula/acre

Foltec LQ ULTRA

Foltec LQ Ultra is a foliar feeding nutritional line derived from the highest quality ingredients intended for use on premium cut turgrass. Foltec LQ Ultra formulations are designed to boost turf pre-stress conditioning and improve overall nutrient efficiency. Select formulations contain value added ingredients including: amino acids, sea plant extracts and micronutrients.

FOLTEC LQ ULTRA MINORS

POWERED BY KEYPLEX®

KeyPlex is more than a minor element package. KeyPlex provides a complex of essential plant nutrients and bio-enhancements and utilizes the most efficient delivery system to supply them.

FOLTEC LQ ULTRA 6-0-0

sea plant extract + amino acids + essential immobile turf nutrients

INTRODUCING!

FOLTEC LQ ULTRA 0-0-27

Foltec LQ Ultra 0-0-27 is a potassium phosphite fertilizer for use on premium turfgrass. The unique phosphite formulation makes this product an ideal selection for providing potassium which is important for cellular structure and plant energy production.

Foltec LQ CLASSIC

This professional grade line of liquid fertilizers contains several time proven formulations in its lineup. Foltec LQ Classics provide a complete foliar feeding and can be used in a variety of different green settings including: lawn care, sports turf, nursery, and specialty crops.

FOLTEC® LQ

Product	Cool Season Turf fl oz/M sq ft	Warm Season Turf fl oz/M sq ft	Other Nutrients (%)								pH	Lbs/Gal	Bio-Enhancements* (%)
			Ca	Mg	Fe	Mn	Zn	Cu	B	Si			
FOLTEC LQ ULTRA - 2 x 2.5 gal cases													
29-2-3 ASP2922X25	2 - 8	2 - 8	-	-	-	-	-	-	-	-	11.0	11.0	0.0
6-0-0 ASP6M2X25	3 - 6	4 - 8	6.0	-	0.5	0.5	-	-	-	0.3	3.0	10.8	15.5
0-0-27 ASPKH272X25	1 - 5	1 - 5	-	-	-	-	-	-	-	-	8.0	12.3	-
Minors APTMICRO2X25.2 **POWERED BY KEYPLEX®**	0.73 - 1.47	0.73 - 1.47	-	1.5	3.5	0.75	0.75	-	0.16	-	5.0	11.2	Humic and Alpha-Keta Acids
FOLTEC LQ CLASSIC - 2 x 2.5 gal cases													
12-2-10 ASP123M2X25	6 - 12	8 - 12	-	-	0.1	0.05	0.05	0.05	-	-	7.8	10.27	-
12-0-0 ASP12M2X25	6 - 12	8 - 12	-	-	6.0	2.0	-	-	-	-	2.8	11.7	-
14-0-3 ASP142X25	6 - 12	8 - 12	-	-	-	-	-	-	-	-	9.5	9.35	-
17-0-5 ASP17M2X25	6 - 12	8 - 12	-	0.5	1.0	0.1	0.1	-	-	-	8.4	10.67	-
18-3-6 ASP18M2X25	6 - 12	8 - 12	-	-	0.5	0.05	0.05	0.05	-	-	8.0	10.64	-
20-3-5 ASP20FE2X25	6 - 12	8 - 12	-	-	0.5	-	-	-	-	-	8.0	10.45	-
28-0-0 ASP282X25	6 - 12	8 - 12	-	-	-	-	-	-	-	-	9.5	10.7	-

FERTILIZERS

Click here to explore Fertilizers on our website.

Analysis	Feature	Typical Rates		N Composition (%)				Sources		Other Nutrients (%)							Bulk Density	Pkg. Wt.
		Products Lbs/M	Nutrients Lbs/M	Amm N	Urea N	WIN	WSN	P	K	Fe	Mg	Mn	Cu	Zn	Ca	S		
TEE TIME® 100 SGN FERTILIZERS PLUS HUMIC DG™																		
0-0-20 ASPK20HUM5 While Supplies Last	41.5% Humic DG™, Micros	2.5 - 6.25	0.5 - 1.25 K	-	-	-	-	-	SOP	2.0	3.4	2.0	0.06	0.06	-	6.8	59.8	50 lb
8-1-8 ASP8HUM5 While Supplies Last	37.15% Humic DG™, Micros	3.2 - 12.5	0.25 - 1.0 N,K	8.0	-	-	-	MAP	SOP	1.3	-	0.06	0.06	0.06	-	8.9	55.3	50 lb
12-2-8 ASP12HUM5 While Supplies Last	65% MUtech®, 47% Humic DG™	2.1 - 8.3	0.25 - 1.0 N	0.42	4.95	2.73	3.90	MAP	SOP	2.0	-	0.1	0.1	0.1	-	2.7	50.3	50 lb
12-18-6 ASP12HU50 While Supplies Last	43% MUtech®, 33.7% Humic DG™	2.8 - 7.0	0.5 – 1.25 P	3.8	3.61	1.89	2.7	MAP	SOP	-	-	-	-	-	-	2.0	52.3	50 lb
TEE TIME® 100 SGN FERTILIZERS FEATURING MUTECH® SLOW RELEASE NITROGEN																		
A-TEP ASP83296.6	Minor Nutrient Package; SGN 100	See label for use rate information		-	-	-	-	-	-	8.0	12.0	3.0	0.1	0.1	-	9.0	67.0	50 lb
0-0-28 AGCSOPGM5.1	SOP, Fe, Mg, Mn	3.6 - 7.2	1.0 - 2.0 K	-	-	-	-	-	SOP	3.0	5.0	3.0	0.1	0.1	-	9.5	69.7	50 lb
0-0-44 AGCK445.40	PCSOP	2.3 - 4.5	1.0 - 2.0 K	-	-	-	-	-	SOP	-	-	-	-	-	-	20.0	66.7	50 lb
0-0-50 AGCGSOPG5	SOP	2.0 - 4.0	1.0 - 2.0 K	-	-	-	-	-	SOP	-	-	-	-	-	-	17.0	75.0	50 lb
8-0-16 AGC8M5.40	SOP, Fe, Mn, Mg	3.1 - 6.3	0.5 - 1.0 K	8.0	-	-	-	-	SOP	2.0	3.0	5.0	-	-	-	14.5	71.2	50 lb
10-18-18 AGC10WM5.5	50% MUtech®	2.8 - 5.6	0.5 - 1.0 P, K	3.8	1.9	1.8	2.5	MAP	SOP	1.0	-	0.1	0.1	0.1	-	6.1	64.9	50 lb
10-20-20 AGC10W5.40	50% MUtech®	2.5 - 5.0	0.5 - 1.0 P, K	4.2	1.5	1.8	2.5	MAP	SOP	-	-	-	-	-	-	6.8	61.3	50 lb
13-2-13 AGC13M5.40	Amm Sulfate	3.8 - 7.7	0.5 - 1.0 N, K	13.0	-	-	-	MAP	SOP	2.0	-	0.1	0.1	0.1	-	18.4	65.1	50 lb
14-28-10 AGC142M5.40	50% MUtech®	1.8 - 3.6	0.5 - 1.0 P	5.9	2.1	2.5	3.5	MAP	SOP	1.0	-	0.1	0.1	0.1	-	3.4	61.0	50 lb
15-0-29 AGC152M5.40	100% MUtech®	1.7 - 3.4	0.5 - 1.0 K	-	2.3	5.3	7.5	-	SOP	1.0	-	0.1	0.1	0.1	-	9.9	61.5	50 lb
16-2-18 AGC167WM5.40	45% MUtech®	3.1 - 6.3	0.5 - 0.9 N	7.2	2.7	2.5	3.6	MAP	SOP	1.0	0.5	1.0	-	-	-	13.4	61.1	50 lb
18-0-18 AGC8352.40	55% MUtech®	2.8 - 5.6	0.5 - 1.0 N, K	1.6	8.0	3.5	5.0	-	SOP	3.0	-	-	-	-	-	7.9	56.2	50 lb
18-6-15 AGC184M5.40	65% MUtech®	2.8 - 5.6	0.5 - 1.0 N	1.27	6.79	4.1	5.9	MAP	SOP	2.0	-	0.1	0.1	0.1	-	5.1	54.9	50 lb
19-5-19 AGC19WM5.40	25% MUtech®	2.6 - 5.3	0.5 - 1.0 N, K	1.06	13.90	1.7	2.4	MAP	SOP	2.0	-	0.1	0.1	0.1	-	6.4	55.5	50 lb
21-3-16 AGC217M50.40	97% MUtech®	2.4 - 4.8	0.5 - 1.0 N	0.63	3.05	7.1	10.2	MAP	SOP	1.0	-	0.1	0.1	0.1	-	5.4	55.0	50 lb
22-0-22 AGC225M5.40	65% MUtech®	2.3 - 4.5	0.5 - 1.0 N, K	-	9.9	5.0	7.2	-	SOP	1.0	-	0.1	0.1	0.1	-	7.5	56.9	50 lb

FERTILIZERS

Click here to explore Fertilizers on our website.

Analysis	Feature	Typical Rates		N Composition (%)				Sources		Other Nutrients (%)							Bulk Density	Pkg. Wt.
		Products Lbs/M	Nutrients Lbs/M	Amm N	Urea N	WIN	WSN	P	K	Fe	Mg	Mn	Cu	Zn	Ca	S		
TEE TIME® 125-135 SGN FERTILIZERS FEATURING MUTECH® SLOW RELEASE NITROGEN																		
16-4-8 AGC16M5.40	Amm Sulfate	3.1 - 6.3	0.5 - 1.0 N	16.0	-	-	-	DAP	SOP	1.0	-	0.1	0.1	0.1	-	19.2	63.2	50 lb
19-26-5 AGC19WM50.40	18% Mutech®	1.9 - 3.8	0.5 - 1.0 P	10.2	5.9	1.2	1.7	DAP	SOP	1.0	-	0.1	0.1	0.1	-	1.7	57.0	50 lb
22-4-18 AGC22715.40	93% Mutech®	2.3 - 4.5	0.5 - 1.0 N	1.6	3.1	7.2	10.2	DAP	SOP	1.0	-	-	-	-	-	6.1	56.0	50 lb
25-5-15 AGC254M5.40	50% Mutech®	2.0 - 4.0	0.5 - 1.0 N	2.0	12.4	4.4	6.3	DAP	SOP	1.0	-	0.1	0.1	0.1	-	5.1	55.1	50 lb
150 SGN FERTILIZERS FEATURING MUTECH®-L & MUTECH®-XL SLOW RELEASE NITROGEN																		
24-0-18 AGC242W5.40	100% MUtech®-XL	2.1 - 4.2	0.5 - 1.0 N	-	2.7	16.9	4.4	-	SOP	-	-	-	-	-	-	6.1	51.6	50 lb
28-0-10 AGC282W5.40	100% MUtech®-L	1.8 - 3.6	0.5 - 1.0 N	-	2.5	17.0	8.5	-	SOP	-	-	-	-	-	-	3.4	53.6	50 lb
39-0-0 AGC391W5.40	100% MUtech®-L	1.3 - 2.6	0.5 - 1.0 N	-	3.5	23.7	11.8	-	-	-	-	-	-	-	-	-	46.0	50 lb
150 SGN FERTILIZERS FEATURING POLY-S® & NS-54™ SLOW RELEASE NITROGEN																		
21-0-20 AGC8391.40	100% Poly-S®	2.4 - 4.8	0.5 - 1.0 N	-	21.0	-	-	-	SOP	-	-	-	-	-	-	8.8	56.0	50 lb
23-0-10 AGC231FE50.40	65% Poly-S®	2.2 - 4.4	0.5 - 1.0 N	-	23.0	-	-	-	SOP	5.0	-	-	-	-	-	4.8	55.8	50 lb
25-2-12 AGC8876.40	97% Poly-S®	2.0 - 4.0	0.5 - 1.0 N	0.8	24.2	-	-	DAP	SOP	-	-	-	-	-	-	6.3	53.5	50 lb
150 SGN FERTILIZERS FEATURING FORTIFY®-N AND/OR AVAIL®																		
23-0-6 AGC23UFE5.40	50% Fortify®-N	2.2 - 4.3	0.5 - 1.0 N	-	23.0	-	-	-	KCl	2.0	-	-	-	-	-	-	57.6	50 lb
23-0-12 AGC23UM5.40	70% Fortify®-N	2.2 - 4.3	0.5 - 1.0 N	6.9	16.1	-	-	-	SOP	2.0	-	1.0	-	-	-	7.8	53.1	50 lb
23-4-10 AGC23UAP5.40	80% Fortify®-N AVAIL®	2.2 - 4.3	0.5 - 1.0 N	1.6	21.4	-	-	DAP	SOP	2.0	-	-	-	-	-	3.4	53.1	50 lb
25-0-9 AGC25UM5.40	80% Fortify®-N	2.0 - 4.0	0.5 - 1.0 N	-	25.0	-	-	-	KCl	2.0	1.0	1.0	-	-	-	-	57.7	50 lb

FERTILIZERS

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Analysis	Feature	Typical Rates		N Composition (%)				Sources		Other Nutrients (%)							Bulk Density	Pkg. Wt.
		Products Lbs/M	Nutrients Lbs/M	Amm N	Urea N	WIN	WSN	P	K	Fe	Mg	Mn	Cu	Zn	Ca	S		
240 SGN FERTILIZERS FEATURING EXTEND™ POLYMER COATED SLOW RELEASE NITROGEN																		
27-3-11 AGC83011.40	48% Extend™ & 48% Poly-S®	1.9 - 3.7	0.5 - 1.0 N	1.2	25.8	-	-	DAP	KCl	1.0	-	2.0	-	-	-	1.2	53.8	50 lb
240 SGN FERTILIZERS FEATURING POLY-S® & NS-54™ SLOW RELEASE NITROGEN																		
20-4-20 AGC201FE5.40	60% NS-54™	2.5 - 5.0	0.5 - 1.0 N, K	1.6	18.4	-	-	DAP	KCl	5.0	-	-	-	-	-	1.1	57.7	50 lb
28-0-10 AGC2816M5.40	60% NS-54™	2.7 - 5.4	0.75 - 1.5 N	-	28.0	-	-	-	SOP	3.0	-	1.0	-	-	-	5.0	53.5	50 lb
38-0-0 AGC3815.40	100% NS-52™ 12% sulfur	2.6 - 5.3	1.0 - 2.0 N	-	38.0	-	-	-	-	-	-	-	-	-	-	12.0	46.5	50 lb
43-0-0 AGC4315.40	100% NS-54™ SGN 240	2.3 - 4.7	1.0 - 2.0 N	-	43.0	-	-	-	-	-	-	-	-	-	-	4.0	46.0	50 lb
240 SGN FERTILIZERS FEATURING POLY-S® SLOW RELEASE NITROGEN																		
25-3-10 AGC252FE5.40	95% Poly-S®	2.0 - 4.0	0.5 - 1.0 N	1.2	23.8	-	-	DAP	SOP	2.0	-	-	-	-	-	5.6	53.9	50 lb
30-3-9 AGC83730.40	50% Poly-S®	3.3 - 6.7	1.0 - 2.0 N	1.2	28.8	-	-	DAP	KCl	2.0	-	-	-	-	-	1.4	51.9	50 lb
SPRAYABLE NUTRIENT PRODUCTS																		
28-5-18 AGC84528	Water Soluble Fertilizer	1.8 - 3.6	0.5 - 1.0 N	-	23.7	-	-	MPP/ MAP	KNO_3	0.1	-	0.005	0.007	0.005	-	-	NA	25 lb
46-0-0 APT4651.5	Water Soluble, 100% Fortify®-N	2.2 - 4.3	1.0 - 2.0 N	-	46.0	-	-	-	-	-	-	-	-	-	-	-	47.0	50 lb

HERBICIDES

Click here to explore Herbicides on our website.

Analysis	Feature	Typical Rates		N Composition (%)				Sources		Active Ingredient Rates (Per Acre)	SGN	Bulk Density	Pkg. Wt.
		Products Lbs/M	Nutrients Lbs/M	Amm N	Urea N	WIN	WSN	P	K				
BARRICADE® PRODUCTS													
6-0-16 AGC6BR5.40	0.426% Barricade® & DG Pro®	2.7 - 5.4	0.4 - 0.9 K	-	6.0	-	-	-	KCl	0.50 - 1.0 lb prodiamine	150	61.7	50 lb
0.48% Barricade® on DG Pro® APTDG48BR5.40	0.48% Barricade®	3.1 - 7.1	DG Pro® Carrier					-	-	0.65 - 1.5 lb prodiamine	150	44.8	50 lb
5-5-30 AGC54BR50.40	0.48% Barricade®	3.5 - 7.2	1.1 - 2.2 K	2.0	3.0	-	-	DAP	KCl	0.73 - 1.5 lb prodiamine	150	62.2	50 lb
19-0-19 AGC197BR5.40	0.48% Barricade®, 40% Poly-S® & DG Pro®	3.5 - 7.2	0.7 - 1.4 N, K	-	19.0	-	-	-	KCl	0.73 - 1.5 lb prodiamine	150	50.2	50 lb
DIMENSION® PRODUCTS													
14-0-14 AGC86914.40	0.164% Dimension®/ 50% NS-54™	2.6 - 5.2	0.4 - 0.7 N, K	-	14.0	-	-	-	KCl	0.19 - 0.37 lb dithiopyr	150	62.3	50 lb
18-3-12 APT18DM5.40	0.164% Dimension®/ 25% NS-54™	2.6 - 7.0	0.5 - 1.3 N	1.2	16.8	-	-	DAP	KCl	0.19 - 0.50 lb dithiopyr	150	58.0	50 lb
0.25% Dimension® on DG Pro® APTDG25DM5.40	0.25% Dimension®	2.4 - 4.6	DG Pro® Carrier					-	-	0.26 - 0.50 lb dithiopyr	150	46.3	50 lb
15-0-10 APT157DM5.40	0.25% Dimension®, 50% NS-54™ & DG Pro®	2.3 - 4.6	0.3 - 0.7 N	-	15.0	-	-	-	KCl	0.25 - 0.50 lb dithiopyr	150	62.0	50 lb
19-0-19 AGC197DM5.40	0.25% Dimension®, 40% Poly-S® & DG Pro®	1.7 - 4.6	0.3 - 0.9 N, K	-	19.0	-	-	-	SOP	0.19 - 0.50 lb dithiopyr	150	56.8	50 lb
24-0-10 AGC2424WDGDM4	0.103% Dimension® 90% MUtech®-L on Contec DG®	2.8 - 8.4	0.7 - 2.0 N	2.4	1.9	12.9	6.8	-	SOP	0.13 - 0.38 lb dithiopyr	150	49.1	40 lb
DIMENSION® & ACELEPRYN® PRODUCTS													
0-0-8 ASPK8DA5.40	0.167% Dimension® & 0.067% Acelepryn®	3.44 - 6.88	0.3 - 0.6 K	-	-	-	-	-	SOP	0.25 - 0.50 lb dithiopyr 0.10 - 0.20 lb chlorantraniliprole	150	49.66	50 lb
28-0-3 ASP282WDA5.40	0.167% Dimension®, 0.067% Acelepryn® & MUtech®-L	3.44 - 6.88	1.0 - 1.9 N	2.03	4.67	14.76	6.54	-	SOP	0.25 - 0.50 lb dithiopyr 0.10 - 0.20 lb chlorantraniliprole	150	48.73	50 lb
30-0-10 ASP301DA5	0.222% Dimension®, 0.067% Acelepryn®, 100% Extend™	3.44 - 6.88	1.0 - 2.0 N	-	30.0	-	-	-	KCl	0.33 - 0.66 lb dithiopyr, 0.10 – 0.20 lb chlorantraniliprole	240	52.07	50 lb

HERBICIDES

Click here to explore Herbicides on our website.

Analysis	Feature	Typical Rates		N Composition (%)				Sources		Active Ingredient Rates (Per Acre)	SGN	Bulk Density	Pkg. Wt.
		Products Lbs/M	Nutrients Lbs/M	Amm N	Urea N	WIN	WSN	P	K				
RONSTAR® PRODUCTS ALL RONSTAR PRODUCTS NOW UTILIZE ADVANCED HOT MELT FORMULATION TECHNOLOGY													
5-5-20 AGC8687.40	1.0% Ronstar®	4.6 - 6.9	0.9 - 1.4 K	2.0	3.0	-	-	DAP	KCl	2.0 - 3.0 lb oxadiazon	215	73.7	50 lb
5-0-15 ASP5R15.40	1.0% Ronstar®	4.6 - 6.9	0.7 - 1.0 K	-	5.0	-	-	-	KCl	2.0 - 3.0 lb oxadiazon	215	75.1	50 lb
5-0-15 ASP5R150.40	1.0% Ronstar®	4.6 - 6.9	0.7 - 1.0 L	-	5.0	-	-	-	KCl	2.0 - 3.0 lb oxadiazon	150	74.9	50 lb
22-0-0 ASP222R150.40	1.0% Ronstar®/ 100% NS-54™	4.6 - 6.9	1.0 - 1.5 N	-	22.0	-	-	-	-	2.0 - 3.0 lb oxadiazon	150	59.0	50 lb
22-4-11 AGC22WR15.40	1.0% Ronstar® 40% MUtech®	4.6 - 6.9	1.0 - 1.5 N	1.6	13.0	3.1	4.4	DAP	SOP	2.0 - 3.0 lb oxadiazon	125	59.2	50 lb
8-4-24 AGC8R15.40	1.38% Ronstar®	3.0 - 5.0	0.7 - 1.2 K	1.6	6.4	-	-	DAP	KCl	1.8 - 3.0 oxadiazon	215	70.3	50 lb
21-0-20 AGC211R5.40	1.38% Ronstar® 50% Poly-S®	3.0 - 6.7	0.6 - 1.4 N	-	21.0	-	-	-	KCl	1.8 - 4.0 lb oxadiazon	150	53.5	50 lb
RONSTAR® & SFT™ TECHNOLOGY													
15-5-10 AGC8684.40	1.0% Ronstar® 40% NS-54™	3.5 - 6.9	0.5 - 1.0 N	2.0	13.0	-	-	DAP	KCl	1.5 - 3.0 lb oxadiazon	215	64.0	50 lb
SFT™ 22-0-10 AGC222R5.40	1.0% Ronstar®/ 100% NS-54™	4.6 - 6.9	1.0 - 1.5 N	-	22.0	-	-	-	KCl	2.0 - 3.0 lb oxadiazon	240	56.6	50 lb
RONSTAR® COMBINATION PRODUCTS													
0-0-22 AGCDMR5.2	0.125% Dimension® & 1% Ronstar®	3.4 - 4.6	0.7 - 1.0 K	-	-	-	-	-	SOP	0.2 - 0.25 lb dithiopyr 1.5 - 2.0 lb oxadiazon	125	81.4	50 lb
22-0-16 AGC22DMR5.5	0.125% Dimension®, 1% Ronstar®, 50% MUtech®	3.4 - 4.6	0.7 - 1.0 N	-	12.7	3.9	5.5	-	SOP	0.2 - 0.25 lb dithiopyr 1.5 - 2.0 lb oxadiazon	125	60.0	50 lb
36-0-0 ASP36DMR5.5	0.125% Dimension®, 1% Ronstar®, 100% UF	3.4 - 4.6	1.2 - 1.7 N	-	4.2	25.2	6.6	-	-	0.2 - 0.25 lb dithiopyr 1.5 - 2.0 lb oxadiazon	125	45.5	50 lb
PROPENDI™ PRODUCTS													
11-3-11 AGC8633.40	0.86% ProPendi™/ 40% Poly-S®	3.3 - 5.3	0.4 - 0.6 K	1.2	9.8	-	-	DAP	KCl	1.3 - 2.0 lb pendimethalin	150	65.3	50 lb
SPECIALTY PRE-EMERGENT PRODUCTS													
Snapshot™ on DG Pro® AGLSNAPDG.1	2.0% trifluralin 0.5% isoxaben	3.4	-	-	-	-	-	-	-	3.0 lb trifluralin 0.75 lb isoxaben	100	47.25	25 lb
Trammel® on DG Pro® APTGL5TN4.2	5% trifluralin	1.8	-	-	-	-	-	-	-	4.0 trifluralin	150	72.3	40 lb

HERBICIDES

Click here to explore Herbicides on our website.

Analysis	Feature	Typical Rates		N Composition (%)				Sources		Active Ingredient Rates (Per Acre)	SGN	Bulk Density	Pkg. Wt.
		Products Lbs/M	Nutrients Lbs/M	Amm N	Urea N	WIN	WSN	P	K				
SPECIALTY PRE-EMERGENT PRODUCTS FOR FINE TURF													
0-0-5 + Dithiopyr AGCDGDT5.40	0.103% dithiopyr	2.8 - 8.4	0.1 - 0.4 K	-	-	-	-	-	SOP	0.13 - 0.38 lb dithiopyr	100	47.5	50 lb
0-0-20 + Dithiopyr AGCSOPDT5.40	0.164% dithiopyr	2.6 - 5.2	0.5 - 1.0 K	-	-	-	-	-	SOP	0.19 - 0.37 lb dithiopyr	100	54.3	50 lb
10-3-10 + Dithiopyr AGC10WDT5.40	0.164% dithiopyr 65% MUtech®	2.6 - 5.2	0.3 - 0.5 N, K	0.63	3.85	2.3	3.3	MAP	SOP	0.19 - 0.37 lb dithiopyr	100	53.0	50 lb
18-6-15 + Dithiopyr AGC184DT5.40	0.164% dithiopyr/ 65% MUtech®	2.6 - 5.2	0.5 - 0.9 N	1.27	6.79	4.1	5.9	MAP	SOP	0.19 - 0.37 lb dithiopyr	100	53.2	50 lb
Goosegrass Crabgrass Control AGC8656.2	8.5% bensulide	2.6 - 5.2	Pulp Carrier					-	-	0.75 - 1.49 lb oxadiazon 3.0 - 6.0 lb bensulide	80	47.4	28.8 lb
PRE-EMERGENT HERBICIDES FOR SEEDING													
12-24-12 APT12S35.40	3.5% Tupersan®	3.3 - 6.6	0.8 - 1.6 P	9.4	2.6	-	-	DAP	KCl	5.03 - 10.06 lb siduron	150	57.8	50 lb
21-22-4 + Mesotrione ASP21WMSFE4	0.08% Mesotrione	4.3	0.95 P	4.5	9.1	0.6	6.8	MAP	SOP	0.15 lb mesotrione	125	40.0	40 lb
POST-EMERGENT BROADLEAF WEED CONTROL													
16-0-5 + Millennium Ultra® AGC16UML4	0.869% Millennium 25% Fortify®-N	4.0	0.6 N	-	16.0	-	-	-	KCl	1.20 lb 2, 4-D 0.12 lb clopyralid 0.12 lb dicamba	150	51.6	40 lb
18-5-9 + Millennium Ultra® AGC185ML4.3	0.869% Millennium 30% NS-54™	4.0	0.7 N	2.0	16.0	-	-	DAP	KCl	1.20 lb 2, 4-D 0.12 lb clopyralid 0.12 lb dicamba	150	48.9	40 lb
21-0-18 + Dicot IV AGC211WF4	Dicot IV 50% MUtech®	3.2 - 3.6	0.7 - 0.8 N	-	12.1	3.7	5.3	-	SOP	1.06 - 1.19 lb 2, 4-D 0.24 - 0.27 lb MCPP 0.10 - 0.11 lb dicamba	125	49.0	40 lb
16-0-9 + Surge® APT164SR4.6	Surge® 25% Poly-S®	2.5 - 4.0	0.4 - 0.6 N	-	16.0	-	-	-	KCl	1.26 - 2.01 lb 2, 4-D 0.19 - 0.30 lb MCPP 0.08 - 0.13 lb dicamba 0.04 - 0.06 lb sulfentrazone	150	50.4	40 lb

WORST WEED.
BEST PICK.

Goosegrass can spoil a putting green surface. Start the season off right with an application of Goosegrass Crabgrass Control or one of our Fertilizer + Dithiopyr products. Labeled and formulated for use on bentgrass and bermudagrass greens, these are the most effective pre-emergent controls for goosegrass and other stubborn grassy weeds.

Watch our video, "The Andersons Goosegrass/Crabgrass Control - Application Tips" on The Andersons Pro YouTube channel: YouTube.com/AndersonsPro.

INSECTICIDES

Click here to explore Insecticides on our website.

Analysis	Feature	Typical Rates		N Composition (%)				Sources		Active Ingredient Rates (Per Acre)	SGN	Bulk Density	Pkg. Wt.
		Products Lbs/M	Nutrients Lbs/M	Amm N	Urea N	WIN	WSN	P	K				
8% Carbaryl on DG Pro® APT8CR5.40	8% Carbaryl on DG Pro®	1.7 - 2.4	DG Pro® Carrier					-	-	5.9 - 8.4 lb carbaryl	150	42.2	50 lb
0.2% GrubOut® on DG Pro® APTDGGB40.2	0.2% GrubOut® on DG Pro®	3.0 - 4.0	DG Pro® Carrier					-	-	0.26 - 0.35 lb imidacloprid	150	46.0	40 lb
Insecticide III on DG Pro® AGC8222.4	1.34% chlorpyrifos	1.3 - 1.7	DG Pro® Carrier					-	-	0.75 - 1.00 lb chlorpryrifos	100	47.0	28.1 lb
0-0-5 + Acelepryn® on DG Pro® ASPK5AC5.40	0.067% Acelepryn® on DG Pro®	3.4 - 11.5	0.2 - 0.6 K	DG Pro® Carrier				-	SOP	0.10 - 0.33 lb chlorantraniliprole	100	48.3	50 lb
15-0-15 + Acelepryn® ASP15UAC50.40	0.067% Acelepryn® 100% Fortify®-N	3.4 - 11.5	0.5 - 1.7 N, K	-	15.0	-	-	-	SOP	0.10 - 0.33 lb chlorantraniliprole	150	63.0	50 lb
26-0-6 + Acelepryn® ASP269WAC5.40	0.067% Acelepryn® 92% MUTech®-L	3.44 - 11.47	0.9 - 3.0 N	2.0	3.03	14.53	6.44	-	SOP	0.10 - 0.33 lb chlorantraniliprole	150	50.2	50 lb
Duocide® (Non-Golf) APTDGDU4	2.3% carbaryl 0.058% bifenthrin	2.0 - 8.0	DG Pro® Carrier					-	-	2.0 - 8.0 carbaryl 0.05 - 0.2 lb bifenthrin	150	47.0	40 lb
ProSect® (Non-Golf) APTDGBF5.40	0.15% bifenthrin	0.7 - 6.1	DG Pro® Carrier					-	-	0.05 - 0.4 lb bifenthrin	150	46.6	50 lb

DUOCIDE™

- WHITE GRUBS
- EUROPEAN CRANE FLY
- CHINCH BUGS
- SOD WEBWORM

NEXT-LEVEL GRUB CONTROL, ABOVE AND BELOW.

DuoCide represents the only solution designed to suppress insects both above AND below the surface. Featuring carbaryl and bifenthrin, DuoCide is a broad-spectrum insecticide designed for the preventative and curative treatment of feeding insects, including white grubs, European crane fly, chinch bugs, sod webworm, and many more!

FUNGICIDES

Click here to explore Fungicides on our website.

Analysis	Feature	Typical Rates		N Composition (%)				Sources		Active Ingredient Rates (Per Acre)	SGN	Bulk Density	Pkg. Wt.
		Products Lbs/M	Nutrients Lbs/M	Amm N	Urea N	WIN	WSN	P	K				
FUNGICIDES WITH FERTILIZERS													
Fertilizer Plus Fungicide VIII 6-0-12 ASP8570	65% MUtech®	1.5 - 3.0	0.18 - 0.36 K	2.1	0.59	1.36	1.95	-	SOP	0.7 - 1.4 lb iprodione 1.4 - 2.7 lb thiophanate	80	52.45	40 lb
Fertilizer Plus Fungicide VIII 23-3-5 AGC8569.4	55% MUtech®	1.5 - 3.0	0.35 - 0.7 N	1.17	10.92	4.49	6.42	MAP	SOP	0.7 - 1.4 lb iprodione 1.4 - 2.7 lb thiophanate	100	48.48	40 lb
Fertilizer Plus Fungicide VII 24-0-18 AGC8578.1 **While Supplies Last** **New Formulations Coming Soon!**	70% MUtech®	1.3 - 2.5	0.3 - 0.6 N	-	9.7	5.9	8.4	-	SOP	0.34 - 0.68 lb triademefon	100	55.0	27.7 lb

GRANULAR FUNGICIDES

Analysis	Products Lbs/M	Carrier	Sources		Active Ingredient Rates (Per Acre)	SGN	Bulk Density	Bag Wt.
			P	K				
Fungicide VII on DG Pro® AGC8573 **While Supplies Last**	1.3 - 5.3	DG Pro® Carrier	-	-	0.3 - 1.4 lb triademefon	100	47.1	29.1 lb
Golden Eagle® Fungicide on DG Pro® AGC8583	2.0 - 8.0	DG Pro® Carrier	-	-	0.3 - 1.4 lb myclobutanil	100	47.0	44 lb
Prophesy® 0.72G Fungicide on DG Pro® AGCDGPZ3	2.5 - 5.0	DG Pro® Carrier	-	-	0.8 - 1.6 lb propiconazole	100	47.3	40 lb
3336 G Granular Fungicide on DG Pro® CLETP3PRO	3.0 - 9.0	DG Pro® Carrier	-	-	2.7 - 8.2 lb thiophanate methyl	150	46.6	30 lb
Chlorothalonil 5G Fungicide ASPCH4	1.9 - 5.2	Pulp Carrier	-	-	4.1 - 11.3 lb chlorothalonil	80	46.3	40 lb
Fungicide X AGC8510.5	2.4 - 7.2	Pulp Carrier	-	-	1.4 - 4.1 lb iprodione	80	46.3	40 lb
VersaGard™ Fungicide G ASPFLCHPZ3	1.66 - 6.66	Ecogran	-	-	2.8 - 11.2 lb chlorothalonil 0.45 - 1.8 lb propiconazole 0.11 - 0.46 fludioxonil	125	32	30 lb

GROWTH REGULATORS

Click here to explore Growth Regulators on our website.

Analysis	Feature	Typical Rates		N Composition (%)				Sources		Active Ingredient Rates (Per Acre)	SGN	Bulk Density	Pkg. Wt.
		Products Lbs/M	Nutrients Lbs/M	Amm N	Urea N	WIN	WSN	P	K				
14-0-28 0.13% Turf Enhancer AGC8737.40	50% MUtech®/SOP	1.7 - 3.3	0.2 - 0.5 N	-	8.1	2.5	3.5	-	SOP	0.10 - 0.19 lb paclobutrazol	100	63.4	50 lb
Governor® G SGN 75 ASPGR34.1	0.15% Trinexapac-ethyl	1.7 - 5.2	Pulp carrier	-	-	-	-	-	-	0.11 - 0.34 lb trinexapac-ethyl	75	46.6	34 lb

VERSAGARD™ FUNGICIDE G

VersaGard is a three-way active ingredient combination of chlorothalonil, propiconazole and fludioxonil. This fungicide can be used to combat a wide variety of summer and winter season diseases. Combining these active ingredients on our patented carrier makes for easy application with any professional spreader from The Andersons.

EXCLUSIVE HELICAL CONE TECHNOLOGY

The Andersons Model 2000 and Model 2000 SR professional spreaders include our innovative helical cone technology. The helical cone, located above the impeller, can be adjusted to place the fertilizer at the correct location on the impeller to provide an even spread pattern. The helical cone allows for even spreading of all sizes of fertilizer granules, and it is only available from The Andersons.

MODEL 2000 SR™ PROFESSIONAL ROTARY SPREADER

- Utilizes patented "Helical Cone" technology for a superior spread pattern
- Includes side deflector shield and port shut-off for limiting spread pattern
- Heavy duty stainless steel frame tubing resists corrosion and adds rigidity
- Extra-large hopper capacity
- Extended handle
- 13" turf saver pneumatic tires
- Integrated front lift handle
- Hopper cover included
- Limited lifetime gear warranty

MODEL SSD™ DROP SPREADER

- High quality stainless steel hopper, metering mechanism and hardware to prevent corrosion and extend spreader life
- Heavy duty stainless steel frame to extend spreader life
- Pneumatic turf saver tires for track free application to premium turf
- Precision metering for applying a variety of fertilizers, control products and seeds
- Vinyl hopper cover to protect material from weather

MODEL 2000™ PROFESSIONAL ROTARY SPREADER

- Utilizes patented "Helical Cone" technology for superior spread pattern
- Extra-large hopper capacity
- Extended handle
- Heavy duty frame tubing for extra rigidity
- 13" turf saver pneumatic tires
- Integrated front lift handle
- Hopper cover included
- Limited lifetime gear warranty

For more information on our line of professional-grade spreaders, visit The Andersons Pro YouTube channel: **YouTube.com/AndersonsPro**

PRIZELAWN® ARC 1 ACCURATE CALIBRATOR

The Prizelawn Calibrator attaches to the spreader and collects granular materials or seeds, which can then be easily removed for weighing to determine the accuracy of the spreader setting with a given product. The ARC 1 Calibrator will fit most professional rotary spreaders.

Watch our video, "**Make Calibration Simple with the Prizelawn® ARC 1 Spreader Calibrator**" on The Andersons Pro YouTube channel: **YouTube.com/AndersonsPro.**

WEBSITE RESOURCES

AndersonsPlantNutrient.com/Turf

PRODUCT INFORMATION
View product information, including SGN size, package weight, bulk density, and spreader settings. You can also download product sheets, labels and SDS documents.

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- Product samples

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TURF NUTRITION TOOL

TurfNutritionTool.com

The Turf Nutrition Tool (TNT) is a web-based platform that allows turf managers to create custom nutrition programs and model the nitrogen release of many of our most popular granular and foliar products.

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ABOUT THE ANDERSONS, INC.

The Andersons, Inc. (Nasdaq: ANDE) is a diversified company rooted in agriculture that conducts business in the commodity trading, ethanol, plant nutrient and rail sectors. The company is known for growing enduring relationships through extraordinary service, a deep knowledge of the market and a knack for finding new ways to add value.

Founded by Harold Anderson and his family in 1947 in Maumee, Ohio, and privately owned until 1996, the premise of the original organization was to make it as easy as possible for regional farmers to take their grain to market. The business model of serving others is the foundation on which the company was built. Today, The Andersons' more than 2,400 employees conduct business from over 130 locations and continue to be committed to providing extraordinary service with the utmost integrity.

Our Mission:

We firmly believe that our Company is a powerful vehicle through which we channel our time, talent, and energy in pursuit of the fundamental goal of serving God by serving others. Through our collective action, we greatly magnify the impact of our individual efforts to:

- Provide extraordinary service to our customers
- Help each other improve
- Support our communities
- Increase the value of our Company

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