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# **BETTER TOGETHER**

TRY THE PRODUCT COMBINATIONS BELOW FOR MAXIMUM RESULTS!

# **HIGH-PERFORMANCE TURF NUTRITION**

The combination of Nutri DG<sup>®</sup> - Gen 3 dispersing granules and Foltec<sup>®</sup> SG soluble granules provides ideal premium nutrition for greens, tees, sports turf, and other fine turf.

#### NUTRI DG - GENERATION 3 (see page 6)

Gen 3 represents the latest evolution of the Nutri 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.

#### FOLTEC SG (see page 12)

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.



# SPRAYABLE FAIRWAY & SPORTSFIELD NUTRITION, REDEFINED.

Combining HCU<sup>™</sup> and Foltec<sup>®</sup> 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 (see page 21)

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.

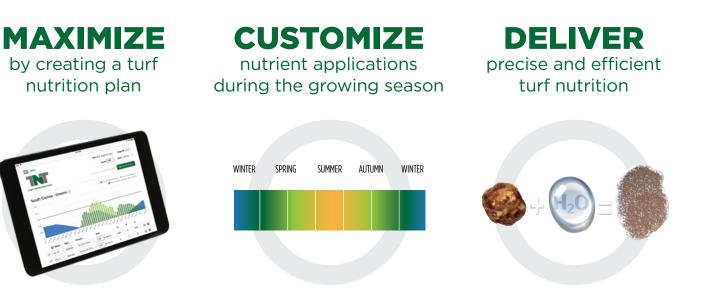
#### FOLTEC SG MINORS (see page 12)

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.



# **BASELINE NUTRITION**

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



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.

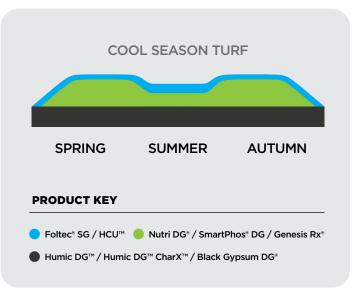
The timing and levels of turf nutrition depend on the type of turf being grown.

# 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 seasons. Foliar nutrition is then applied to complement granular baseline nutrition, especially during the summer, when turf can be under stress.

#### HUMIC DG<sup>™</sup>, HUMIC DG CHARX<sup>™</sup>, and BLACK

**GYPSUM DG**<sup>®</sup> can be used throughout the growing season to improve soil health and increase uptake and utilization of soil and applied nutrients.



# 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 Nutri DG<sup>®</sup>, SmartPhos<sup>®</sup> DG, Genesis Rx<sup>®</sup>.

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.



#### **NUTRI DG®**

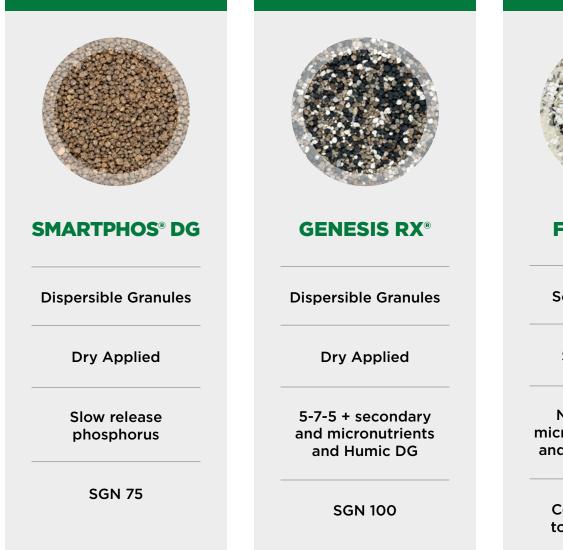
**Dispersible Granules** 

**Dry Applied** 

14 different formulations

SGN 75-150







#### **FOLTEC® SG**

**Soluble Granules** 

**Spray Applied** 

N-P-K, chelated micros, UltraMate<sup>®</sup> SG and seaplant extract

Convenient, easy to use packaging

### **GRANULAR NUTRITION**

# Patented. Proven. Guaranteed.

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

### INTRODUCING NUTRI DG GENERATION 3

#### EASY TO SPREAD. EASY TO SEE.

Gen 3 represents the latest evolution of the Nutri 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 Nutri DG products, which allows for a firmer, residue-free playing surface with less downtime.

#### THE EVOLUTION

For more than a decade, Nutri DG has been the industry leader in dryapplied 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.



A MORE EFFICIENT USER EXPERIENCE

- Lighter in color, Nutri 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 Nutri DG greens and fairways products: 17-0-17, 18-9-18, 28-0-6, and 12-3-12. For product listings see page 6.

### 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**

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

#### **NO STICKY RESIDUE**

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

#### **OPTIMIZED NUTRITION**

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

#### FORMULATIONS

With over twenty different formulations, Nutri 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 Nutri DG products.

#### **ZERO NITROGEN PRODUCTS**

There are times when a turf manager may need specialty nutrient applications that do not contain nitrogen. The

following Nutri DG products have been designed with this in mind: Mag-tec^m 0-0-12 and 0-0-25.

#### **NUTRIENT SOURCES**

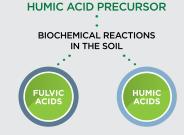
Nutri DG is formulated using the safest and highest quality nutrient sources.

- Nutri 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 Nutri DG product list.
- Micronutrients are sulfate based for quick and efficient nutrient response.

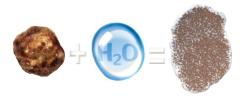
#### THE CARBON COMPONENT OF NUTRI DG

#### HOW DOES HUMIC ACID PRECURSOR WORK?

Humic acid precursor contains a soluble form of organic carbon which releases into the soil as Nutri 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 Nutri DG is applied at label rates.







# **GRANULAR NUTRITION**

	Description		Compo	sition (S	%)	РК		Rates Rates	Pkg.	
NPK	Description					Source	Source	kg/100 m²	lb/1000 ft²	Wt. kg
NUTRI DG <sup>®</sup> G	REENS - SGN 75 - FOR GREENS, TEES, S	PORT	SFIEL	.DS &	отне	R FINE	TURF			
0-0-12	Mag-tec™, 24% Mg	-	-	-	-	-	Sulfate of Potash Magnesia, Potassium Sulfate	1.02 - 2.04	2.08 - 4.17	25
0-0-25	3.0% Mn, 4.0% Mg, Bio-enhanced with Amvital™	-	-	-	-	-	Sulfate of Potash Magnesia, Potassium Sulfate	0.98 - 2.44	2.00 - 5.00	20
9-0-18	65% MUtech*, 6.0% Mn, 0.3% Fe	3.15	0.87	2.05	2.93	-	Potassium Sulfate	0.88 - 2.73	1.80 - 5.60	20
12-3-12	GEN 3 0.3% Fe, 0.5% Mn, Bio-enhanced with Amvital™	12.00	-	-	-	MAP	Potassium Sulfate	0.85 - 2.05	1.70 - 4.20	20
12-24-8	50% MUtech*, 0.3% Fe, 0.5% Mn	6.00	0.90	2.10	3.00	MAP	Potassium Sulfate	1.53 - 3.05	3.13 - 6.25	20
13-0-26	100% MUtech®	-	1.95	4.55	6.50	-	Potassium Sulfate	0.95 - 1.86	1.90 - 3.80	20
14-7-14	60% MUtech <sup>®</sup> , 0.3% Fe, 0.14% Mn	5.60	1.26	2.94	4.20	MAP	Potassium Sulfate	1.74 - 3.94	3.57 - 7.15	20
17-0-17	GEN 3 50% MUtech*, 0.5% Fe, 0.25% Mn	5.31	4.46	2.98	4.25	-	Potassium Sulfate	1.44 - 2.87	2.94 - 5.88	20
18-0-5	75% MUtech <sup>®</sup> , 6.85% S, 7.0% Mn	4.50	2.02	4.73	6.75	-	Potassium Sulfate	0.85 - 2.45	1.7 - 5.00	20
18-3-18	93% MUtech®	1.26	2.45	5.88	8.41	MAP	Potassium Sulfate	1.00 - 2.50	2.05 - 5.12	20
18-9-18	GEN 3 60% MUtech*, 0.3% Fe, 0.14% Mn	4.17	4.73	3.75	5.35	MAP	Potassium Sulfate	1.36 - 2.71	2.78 - 5.56	20
19-0-15	100% MUtech®, 1.0% Mg, 0.5% Fe, 0.05% Mn, 0.05% Zn, 0.05% Cu	-	2.26	6.89	9.85	-	Potassium Sulfate	1.27 - 2.59	2.60 - 5.30	20
NUTRI DG <sup>®</sup> S	NUTRI DG <sup>®</sup> SPORTS - SGN 150 - FOR FAIRWAYS, SPORTSFIELDS & OTHER FINE TURF									
18-24-5	35% MUtech*	4.80	7.84	2.21	3.15	MAP	Potassium Sulfate	1.53 - 3.05	3.13 - 6.25	20
20-0-16	100% MUtech®-M	-	2.81	9.10	8.09	-	Potassium Sulfate	1.22 - 3.05	2.50 - 6.25	20
28-0-6	GEN 3 59% MUtech*	7.60	6.00	6.90	7.50	-	Potassium Sulfate	0.87-2.62	1.79-5.36	20
DG SOIL ENH	IANCERS - SGN 75-100 - FOR GREENS, 1	EES,	SPOR	TSFIE	LDS 8					
<b>5-7-5</b> Genesis Rx®	49% MUtech®, 21.5% Humic DG™, 0.9% Fe, 3.2% Mg, 0.5% Mn, 3.7% Ca, 6.5% S, SGN 75	1.86	1.07	0.86	1.22	Struvite/ MAP	Potassium Sulfate	2.44-9.77	5.0-20.0	20
4-22-0	SmartPhos <sup>®</sup> DG, 8% Mg, SGN 75	4.0	-	-	-	Struvite	-	1.13 - 3.43	2.30 - 7.00	18.14
DG Lime™	Dispersible Limestone to correct or maintain soil pH 30% Ca, 4% Mg, SGN 100	-	-	-	-	-	-	0.98 - 19.60	2.00 - 4.00	22.68
DG Gypsum <sup>™</sup>	Dispersible Gypsum for adding Ca and reducing Na 21% Ca, SGN 100	-	-	-	-	-	-	2.94 - 49.00	6.00 - 100.00	25
DG PRO <sup>®</sup> FUI	DG PRO® FUNGICIDES - SGN 100 - FOR GREENS, TEES, SPORTSFIELDS & OTHER FINE TURF									
Prophesy*	0.72% Propiconazole	snow n	nold, dol	lar spot,	anthracı		rium patch, gray 1 patch, summer put.	0.56 - 4.46	1.14 - 9.10	18
PRODUCT/TEMPERATURE USE GUIDE Warm > 27°C/80°F Moderate > 10°C/50°F Cool < 10°C/50°F Moderate All temps										

## **GRANULAR NUTRITION**

# SmartPhas DG

#### Season-Long Feeding with High Efficiency, Recycled Phosphorous.

- Features Dispersing Granule (DG) Technology
- Contains "Struvite," a unique combination of recycled phosphorous and magnesium
- Provides season-long phosphorus feeding
- Safe for use on seedlings and established plants and turf
- Use SmartPhos DG at half the rate of traditional starter fertilizers and get the same results

# **MUtech**

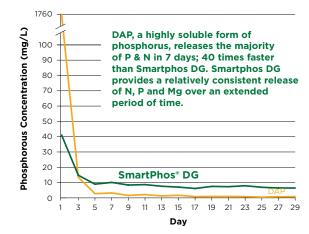
# MUtech methylene urea is highly engineered to deliver steady, predictable nitrogen release.

MUtech helps professionals get the most predictable and favorable results by providing them with the greatest flexibility in tailoring turf nutrition programs. MUtech is available in our Nutri DG<sup>®</sup>, Tee Time<sup>®</sup>, and MU-Sports<sup>™</sup> products.

#### **PROVEN PRODUCT BENEFITS**

- Nitrogen is released through the naturally occurring action of soil microbial activity, helping nutrient performance and soil structure.
- MUtech allows consistently predictable feeding, turf color, and growth.
- Nitrogen release rate is not altered by physical damage to particles or by dispersion.

#### PHOSPHOROUS MOVEMENT THROUGH SAND



Summary (Right): SmartPhos DG's unique slow release properties make it a perfect match for golf course greens. In a leaching study conducted at The Ohio State University, columns of sand were treated with SmartPhos DG or DAP. Water was then leached through the sand twice a day for 30 days and was analyzed for nutrient content. The results indicate that the movement of soluble phosphate is very even for SmartPhos DG, as compared to DAP (diammonium phosphate), whose phosphate was exhausted after just 7 days of testing. SmartPhos DG provides your turf with balanced, slow release nutrition.

#### **RELEASE PROFILE OF MUTECH**



- Low salt index equals extremely low burn potential with NO fragile coating.
- Nitrogen release slows as temperatures rise above 32°C, rather than increasing like coated nutrition.

# **PROPHESY<sup>®</sup> FUNGICIDE**

#### Disease control with DG Pro® Technology

Prophesy fungicide delivered to your turf via fast acting DG Pro Technology provides prevention of Snow Mold and other common turf diseases. Because it is a DG (Dispersible Granule) Pro product, Prophesy is the ideal product for greens, tees and low-cut bentgrass fairways. With light watering, the product immediately dissolves into the target areas, eliminating any chance of mower pickup, runoff, or ball/shoe pickup.

# 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<sup>®</sup>

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<sub>4</sub>) 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<sub>4</sub>2H<sub>2</sub>O). With two extra water molecules, this form is more water soluble than the anhydrite form (CaSO<sub>4</sub>). 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 ft<sup>2</sup> and can be mixed directly in with sand for easy application. For complete application instructions, consult product label.



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 ft<sup>2</sup> and can be mixed directly in with sand for easy application. For complete application instructions, consult product label.



# **GenesisR** 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<sup>™</sup> (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 ft<sup>2</sup>. 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.



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.

# **AERIFICATION BASICS**

#### **1 PRODUCT / 1 APPLICATION**

Genesis R<sup>\*</sup> 5-7-5

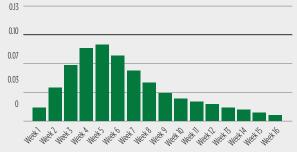
Apply at 15 lbs./1000 ft² following aerification

#### **1 PRODUCT / 2 APPLICATIONS**

#### Genesis R<sup>\*</sup> 5-7-5

Apply at 7.5 lbs./1000 ft<sup>2</sup> two weeks prior to aerification Apply at 7.5 lbs./1000 ft<sup>2</sup> following aerification





In this example, 7.5 lbs of Genesis Rx 5-7-5 were applied at Week 1 and then another 7.5 lbs were applied at Week 3.

#### PREMIUM NUTRITION 11

### FOLIAR NUTRITION | SOLUBLE GRANULES

### 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.



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



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.



# 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

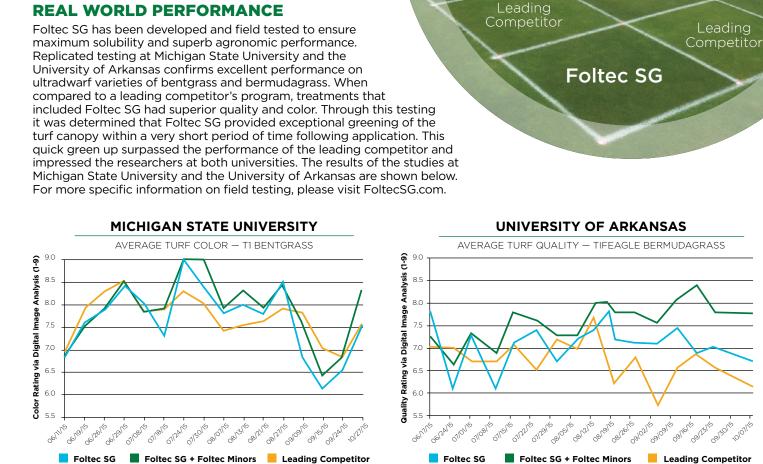
Foltec SG contains sea plant extracts derived from the most biologically active sea plant species in the world. They contain a complex array of organic and mineral compounds which include vitamins, sugars, enzymes and proteins that combine to promote improved wear and drought tolerance. Foltec SG N-P-K 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.<sup>1</sup>

#### 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.

 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).

### FOLIAR NUTRITION | SOLUBLE GRANULES



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

#### **FOLTEC® SG**

Product	Delivers Ibs of Nutrient per M			Other Nutrients (%)				<b>UltraMate</b> * <b>SG</b> Ibs/acre	Sea Plant Extract Ibs/acre	Package	Case	
RATES AND COVER		Ρ	K	Mg	Fe	Mn	Cu	Zn				
Foltec <sup>®</sup> SG 24-0-8	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 <sup>®</sup> SG 8-0-24	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 <sup>®</sup> SG 8-24-8	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 <sup>®</sup> SG 16-0-16	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 <sup>®</sup> SG Minors	-	-	-	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	<b>Delivers</b> Ibs of nutrient per M			UltraMate* SG	Sea Plant Extract	Package 13.6 lbs	
					lbs/acre	lbs/acre	13.0 IDS	
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	

# NEW AND IMPROVED



# **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. The latest version of the TNT has been completely reimagined to include a mobile-friendly tool accessible from any device, improved user experience, and new product listings.

### GET STARTED TODAY AT TURFNUTRITIONTOOL.COM





#### **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.<sup>1</sup> 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).

		NEW!		
HUMIC DG™	BLACK GYPSUM DG®	HUMIC DG™ CHARX™	HCU™ 44-0-0 (HUMIC COATED UREA)	FERTILIZER + HUMIC BLENDS
Granule	Granule	Granule	Granule	Granule
Dry Applied	Dry Applied	Dry Applied	Dry or Spray Applied	Dry Applied
62% Humic Acid (A&L Method)	10% or 21% Humic Acid (A&L Method)	30% Humic Acid (A&L Method)	<b>2% Humic Acid</b> (A&L Method)	Humic Acid Varies
SGN 75 or 240	SGN 75 or 240	SGN 200	SGN 215	SGN 100-240

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

# 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

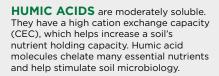
#### THE THREE HUMIC FRACTIONS

NATURALLY DERIVED BIO-ORGANIC CARBON SOURCES



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.

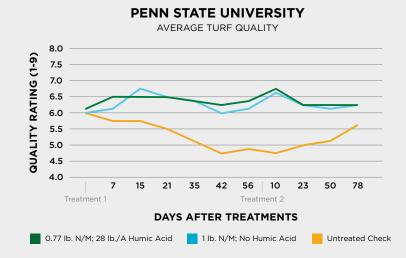




**HUMINS** are the least soluble form of humic substances. They contain high levels of carbon and have large nutrient holding capacity. Humins persist in soils for very long periods of time.



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.



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<sup>™</sup> 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 guality and color were observed throughout the study in plots treated with the full rate of nitrogen (1.00 lb N/1000 ft<sup>2</sup>) and plots treated with Humic DG (28 lb/A) and a reduced rate of nitrogen (0.77 lb N/1000 ft<sup>2</sup>).

### HUMIC GRANULES

# Humic DG

Sulvic Acid

Humic Acid

🗹 Humin

Humic Acid Precursor



#### NON-PLANT FOOD INGREDIENTS

Soil Amending Ingredient	
Humic Acid*	62.0%
Total Other Ingredients**	38.0%
*Derived from leonardite	

\*\*Inactive components of leonardite, proprietary binding agent, water

#### **PRODUCT SPECIFICATIONS**

Product Type:	Dispersing granule humic acid
Humic Acid Content:	62% (A&L method)
Humic Acid Precursor Content:	10%
Particle Size:	75 SGN, 240 SGN
Moisture Content:	7-9%
Bulk Density:	640 kg/m³
Package Size:	20 kg poly bag 500 kg bulk bag
Typical Rate:	45-225 kg/ha 40-200 lbs/acre



#### Humic DG granules contain 62% humic acid and 10%

humic acid precursor. DG Technology creates a dust free, spherical, ultra dry particle that rapidly disperses into thousands of microparticles upon contact with moisture. Humic DG granules' increased surface area, when compared to screened humate, creates greater availability to the plant. It performs in a wide range of conditions and soil types, independent of application method, and features dual carbon sources that are unique to The Andersons granular humic products. Humic DG contains the full spectrum of humic substances: fulvic acid, humic acid, and humin, as well as humic acid precursor.

#### **FEATURES & BENEFITS**

- Flexible application allows for use as a stand alone product or in blends with granular fertilizers
- 4X more efficient than screened humate
- Enhances nitrogen and phosphorus efficiency
- Promotes good soil structure and increases water holding capacity
- · Enhances root system development
- Easy to handle and spread through all types of application equipment
- Economical application cost per acre compared to liquid and screened humates

APPLICATION RATES				
Crops (Broadcast)	45 kg/ha	40 lbs/acre		
Crops (In-furrow/banded)	4.5 - 11.2 kg/ha	4 - 10 lbs/acre		
Turf	45 - 225 kg/ha	40 - 200 lbs/acre		
Trees, Shrubs (per tree or shrub)	57 - 226 g	2 - 8 oz		
<b>Ornamentals &amp; Bedding Plants</b>	0.5 - 1.0 kg/100 m²	1 - 2 lbs/1000 ft²		
Potting Soils (of potting mix)	0.9 - 4.5 kg/m³	2 - 10 lbs/yd³		



# Black Gypsum DG®

**V** Fulvic Acid

Humic Acid

🗹 Humin

Humic Acid Precursor

Black Gypsum DG granules are homogenous and combine natural gypsum and humic substances to form a unique bio-amendment. DG Technology creates a dust-free, spherical, ultra-dry granule that rapidly disperses into thousands of microparticles upon contact with moisture. These microparticles deliver calcium, sulfur, and carbon directly into the soil.

#### **FEATURES & BENEFITS**

- Contains calcium sulfate dihydrate (CaSO<sub>4</sub> 2H<sub>2</sub>O)
  - » Water soluble
  - » Increases calcium and sulfur without changing soil pH
- Humic acid from oxidized lignite (leonardite)
- Improves root development, nutrient uptake, and phosphorus stability
- Provides secondary nutrients (calcium and sulfur)
- Enhances soil health by stimulating soil microbial populations and relieving compaction and salinity
- Blends with fertilizer or can be used alone

#### **BLACK GYPSUM DG - 10% HUMIC ACID**

#### **GUARANTEED ANALYSIS**

Calcium Sulfate Dihydrate (CaSO <sub>4</sub> • 2H <sub>2</sub> O)	70.0%
Humic Acid	10.0%
Calcium (Ca)	17.0%
Sulfur (S)	13.0%

13.0%...Combined Sulfur

Plant nutrients derived from calcium sulfate, humic acid derived from leonardite, and mined gypsum

Contains non-plant food ingredients: 3% plant based organic acids

#### PRODUCT SPECIFICATIONS

Product Type:	Dispersing granule humic acid + gypsum
Humic Acid Content:	10% (A&L method)
Humic Acid Precursor Content:	3%
Gypsum Content:	80%
Particle Size:	240 SGN
Moisture Content:	3-7%
Bulk Density:	897 kg/m³
Package Size:	20 kg poly bag 2,000 lb bulk bag
Typical Rate:	150-600 kg/ha 130-250 lbs/acre

APPLICATION RATES				
Established Turf	146 - 584 kg/ha	130 - 520 lbs/acre		
Newly Seeded Turf	292 - 584 kg/ha	260 - 520 lbs/acre		
Hydroseeding	292 - 584 kg/ha	260 - 520 lbs/acre		
Damaged Salt Areas	584 - 975 kg/ha	520 - 870 lbs/acre		
Garden & Crops	225 - 560 kg/ha	200 - 500 lbs/acre		
Containers/Topdressing	See label	ANALIS		



#### **BLACK GYPSUM DG - 21% HUMIC ACID**

#### **GUARANTEED ANALYSIS**

Calcium Sulfate Dihydrate (CaSO <sub>4</sub> • 2H <sub>2</sub> O)	48.0%
Humic Acid	21.0%
Calcium (Ca)	12.0%
Sulfur (S)	8.9%
8.9%. Combined Sulfur	

Plant nutrients derived from calcium sulfate, humic acid derived from leonardite, and mined gypsum.

Contains non-plant food ingredient: 12% plant based organic acids

#### **PRODUCT SPECIFICATIONS**

Product Type:	Dispersing granule humic acid + gypsum
Humic Acid Content:	21% (A&L method)
Humic Acid Precursor Content:	10%
Gypsum Content:	60%
Particle Size:	75 SGN, 240 SGN
Moisture Content:	3-7%
Bulk Density:	785 kg/m³
Package Size:	20 kg poly bag 2,000 lb bulk bag
Typical Rate:	150-600 kg/ha 130-250 lbs/acre

## HUMIC GRANULES

# Humic DG CharX

**V** Fulvic Acid

**Humic Acid** 

**Humin** 

Humic Acid Precursor

Biochar

NEW!

Humic DG CharX harnesses the power of humic acid and biochar in a 50/50 blend, providing the benefits of the more quickly-available humic acid and the long-term soil building qualities of biochar. Powered by Dispersing Granule (DG) Technology, Humic DG CharX takes soil health to the next level.

#### WHY BIOCHAR?

Having a soil that is high in organic matter has a wide range of benefits for a turfgrass manager. Soil organic matter provides nutrient holding capacity, water holding capacity, and stable aggregates to the soil. Some of the most fertile soils in the world are located in the Amazon region. In this region, these fertile soils, known as 'Terra Preta', were created by Amazonian inhabitants via the addition of a variety of organic soil amendments including biochar.

Biochar is the result of burning wood byproducts (feedstock) at high temperatures with little to no oxygen present. The resulting byproducts (biochar) are high in carbon and provide excellent physical structures for microbial development. Biochar works to build soil profiles, lasting for hundreds of years. Biochar also contains karrikins, a family of bioactive compounds that stimulate roots to boost new seedlings.

#### WHAT SETS HUMIC DG CHARX APART?

For peak effectiveness, biochar needs to migrate through the turf and down into the root system. This can be tricky with many products, which bring application difficulties and poor efficacy. While crumbled or micronized biochar products move well through the turf canopy, they do present challenges in allowing the product to properly flow through a standard broadcast spreader. Other biochar products contain larger chunks, which causes the product to remain in the thatch layer on top of the soil for long periods of time.

Humic DG CharX features DG Technology, which allows each spherical, low-dust granule to disperse into smaller microparticles when watered. This helps both the humic

acid and biochar to move quickly through the turf canopy and down to the root zone, where they can begin to go to work.



#### NON-PLANT FOOD INGREDIENTS

Soil Amending Guarantees Analysis	
Humic Acids*	.30.0%
Wood Biochar**	.30.0%
Total Other Ingredients***	.38.0%

\*Derived from leonardite

\*\*Derived from 90% softwood and 10% hardwood/nutshells

\*\*\*Inactive components of leonardite, proprietary binding agent, water

#### **PRODUCT SPECIFICATIONS**

Product Type:	Dispersing granule humic acid + biochar
Humic Acid Content:	30% (A&L method)
Humic Acid Precursor Content:	10%
Particle Size:	200 SGN C
Moisture Content:	3-6% Carbon
Bulk Density:	593 kg/m³
Package Size:	20 kg poly bag
Typical Rate:	45-225 kg/ha 40-200 lbs/acre

APPLICATION RATES									
Crops (Broadcast)	45 kg/ha	40 lbs/acre							
Crops (In-furrow/banded)	4.5 - 11.2 kg/ha	4 - 10 lbs/acre							
Turf	45 - 225 kg/ha	40 - 200 lbs/acre							
Trees, Shrubs (per tree or shrub)	57 - 226 g	2 - 8 oz							
<b>Ornamentals &amp; Bedding Plants</b>	0.5 - 1.0 kg/100 m²	1 - 2 lbs/1000 ft²							
Potting Soils (of potting mix)	0.9 - 4.5 kg/m³	2 - 10 lbs/yd³							



# 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.

NITROGEI	N RATE	PRODUCT RATE	SUGGESTED MIN. SPRAY VOLUME	BAG RATE (22.68 kg)
kg/100 m <sup>2</sup>	kg/ha	kg/ha	liters/ha	bags/ha
0.05	5.00	11.50	280.00	0.50
0.10	10.00	23.00	375.00	1.00
0.20	20.00	46.00	375.00	2.00
0.30	30.00	69.00	560.00	3.00
0.40	40.00	92.00	560.00	4.00
0.50	50.00	115.00	750.00	5.00

#### DRY APPLICATION RATES

NITROGI	EN RATE	PRODUCT RATE	BAG RATE (22.68 kg)
kg/100 m <sup>2</sup>	kg/ha	kg/ha	bags/ha
0.375	37.50	85.00	3.75
0.500	50.00	114.00	5.00
0.625	62.50	142.00	6.25
0.750	75.00	170.00	7.50

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

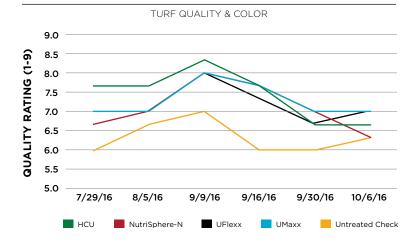
#### **SPRAY APPLICATION**

HCU granules completely solubilize when added to water and can be spray applied at nitrogen rates of 0.05 - 0.50 kg/100 m<sup>2</sup>. 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 0.375-0.750 kg/100 m<sup>2</sup>.



UNIVERSITY OF ARKANSAS

#### **PRODUCT SPECIFICATIONS**

Analysis:	44-0-0	
Particle Size:	215 SGN	The core Andersons
UI:	40	
Bulk Density:	737 kg/m³	44-0-0
RTA:	90%+	
Package Size:	22.68 kg bag	

## FERTILIZERS

NPK		Description	N Compo Amm Urea N N	sition (%) WIN WSN	P Source	K Source	<b>Rates</b> kg/100 m²	<b>Rates</b> Ib/1000 ft²	<b>Pkg.</b> Wt. kg
TEE T	IME®	Tee Time® products are fairways. Key ingredier							

TEE TIME® - BLENDED SGN 100 - FERTILIZERS FOR GREENS & TEES 13-2-13 2% Fe, 0.1% Mn. 0.1% Zn, 0.1% Cu 13.00 MAP Potassium Sulfate 0.98 - 1.96 2.00 - 4.00 22.68 \_ 14-28-10 50% MUtech®, 1% Fe, 0.1% Mn, 0.1% Zn, 0.1% Cu 5.92 2.13 2.45 3.50 MAP Potassium Sulfate 0.88 - 2.65 1.80 - 5.40 20 18-6-15 65% MUtech®, 2% Fe, 0.1% Mn, 0.1% Zn, 0.1% Cu Potassium Sulfate 1.27 6.79 4.09 5.85 MAP 1.36 - 2.72 2.78 - 5.56 20 **SPECIALTY NUTRIENTS - SGN 100** 

0-0-30	3% Fe, 0.1% Mn, 0.1% Zn, 0.1% Cu	-	-	-	-	-	Potassium Sulfate	1.23 - 2.03	2.50 - 4.15	20
A-TEP	Micro Package / 12% Mg, 8% Fe, 3% Mn, 0.1% Zn, 0.1% Cu	-	-	-	-	-	-	0.69 - 1.13	1.40 - 2.30	22.68

# FERTILIZERS WITH HUMIC

#### FERTILIZERS WITH HUMIC - SGN 150-240

16-0-8	50% MUtech®, 19% Humic DG™, 2% Fe, SGN 150	-	9.20	2.80	4.00	-	Potassium Sulfate	1.52 - 3.05	3.12 - 6.25	20
18-0-7	50% NS-54*, 20% Humic DG™, SGN 240	-	18.00	-	-	-	Potassium Sulfate	1.70 - 2.70	3.5 - 5.6	20
22-0-4	50% HCU™, 43% Black Gypsum DG®, SGN 240	-	22.00	-	-	-	Potassium Sulfate	1.70 - 2.20	3.5 - 4.5	20

# **POLYSPORTS**<sup>TM</sup>

PolySports<sup>®</sup> products are high quality SGN 150-240 blended fertilizers designed for higher cut turf such as fairways & sportsfields. Slow release nitrogen comes from NS-54<sup>®</sup> polymer coated sulfur coated urea.

#### POLYSPORTS™ MINI - SGN 150 - FERTILIZERS FOR FAIRWAYS & SPORTSFIELDS WITH NS-54®

21-0-20	100% NS-54®	-	21.00	-	-	-	Potassium Sulfate	1.76 - 2.93	3.6 - 6.0	20
23-2-10	65% NS-54*, 5% Fe	0.78	22.22	-	-	DAP	Potassium Sulfate	1.59 - 2.67	3.25 - 5.45	20
25-2-9	96% NS-54*, 2% Fe	0.78	24.22	-	-	DAP	Potassium Sulfate	1.45 - 2.45	3.0 - 5.0	20

#### POLYSPORTS™ - BLENDED SGN 240 FERTILIZERS FOR FAIRWAYS & SPORTSFIELDS WITH NS-54

21-3-20	94% NS-54*	1.17	19.83	-	-	DAP	Potassium Chloride	1.76 - 2.93	3.6 - 6.0	20
25-3-10	95% NS-54*, 2% Fe	1.17	23.8	-	-	DAP	Potassium Sulfate	1.5 - 2.4	3.0 - 5.0	20
30-3-9	50% NS-54*, 2% Fe	1.17	28.83	-	-	DAP	Potassium Chloride	1.22 - 2.05	2.5 - 4.2	20
33-3-6	96% NS-54*	1.17	31.83	-	-	DAP	Potassium Chloride	1.46 - 2.25	3.0 - 4.6	20

## **PROFESSIONAL SPREADERS**



#### **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<sup>™</sup> 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.

# **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



#### AndersonsPlantNutrient.com 800-831-4815

MandersonsTurf 🚺 AndersonsPro

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