



PRODUCT CATALOG

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The Next Frontier

In the soil, turfgrass plants rely heavily on microorganisms to break down organic matter and compounds, solubilize fertilizers and nutrients, and make them available for uptake. This is the "digestion" process STS scientists implement during their manufacturing. STS now has a full line of "pre-digested" fertility products for turfgrass managers. This process dramatically reduces the amount of time and energy your plants expend to take in and utilize nutrients.

Here's how we do it:

STS bioreactors are used to grow beneficial yeast, bacteria, and fungi, resulting in the harvest of their metabolites, extracts, and byproducts. These are unique and controlled processes, which are complex, yet non-toxic, yielding "Next Generation" products.



"Pre-Digestion" takes multiple weeks, and provides molecules that are so small they are measured in the form of "Dalton". One Dalton is equal to one atom, and provides measurement in a three dimensional form.

Plants cell surfaces require a Dalton size of 600 to 700 or less to pass through the cell structure. Humic acid, for example, has an average Dalton size of 8,000 to 200,000, and very little is directly absorbed into the plant on surface contact. Fulvic acid has an average Dalton size of 1,500 to 8,000, with particles on the larger size of 5,000 plus, and the smaller size of 500; the lowest of which is just able to penetrate plant surfaces. Fulvic acid is reduced or broken down from humic acid through a series of chemical and/or biological degradation processes; fulvic acid can be further reduced.

Pre-Digestion yields nutrients and beneficial constituents that are smaller than 500 Daltons in size, enhancing foliar and root absorption. We use this process to remove oxides, provide desired nutrients in ionic form (K+, Ca++, etc.), complex and chelate nutrients, all using this advanced nano-technology to optimize absorption and utilization while conserving energy.

Ststurf) The <u>Next Generation</u> of Turf Nutrition

Nutrient Mining Technology[™]

SOLU-PLUS Nutrient Mining Technology™, works as a 'releasing agent' to substitute current bonding between positive and negative charged particles held in the soil and organic matter which are tied-up electro-magnetically. **SOLU-PLUS Nutrient Mining Technology™** promotes the release of nutrients, adjusting the amount based on the rate applied. This very small, highly active compound carries both positive and negative charges, therefore it can donate a 'charge' and in doing so will facilitate the release of bonded elements. Once the mineral element is released from its previous bond it attaches to product components including organic acids, to "hold" the soluble nutrient in available form, to be taken up by the plant via the water stream. This process continues until the Solu-Plus applied has used all of its' donating charge capacity and/or complexing and chelating capabilities.

SOLU-PLUS has a very low molecular weight and is very high in the functional groups of phenols and carboxylates. The humic/fulvic extract is very stable over a wide range of pH. In addition, there are bio-surfactants and organic compounds including aminated compounds that total 37% - excellent for the soil chemistry and soil biology.

SOLU-PLUS is an excellent food source for beneficial soil biology such as bacteria, actinomycetes, fungi, and protozoa. Solu-Plus will stimulate the growth of thatch degrading microorganisms that can properly decompose and reduce disease-harboring materials, return mineral nutrients back into plant available forms, reduce soil compaction by improving air pore space and soil structure for greater root growth, moisture retention, and soil to root contact for nutrient uptake by the plant.

SOLU-PLUS is a "Next Generation" component in STS foliar products. Solu-Plus will maximize mineral absorption through the leaf tissue and helps to maintain mineral availability by stopping the electro-magnetic attraction between positive and negatively charged elements.

SOLU-PLUS has stopped the glyphosate - nutrient "tie-up" process when applied with other foliar products that are mixed together. Solu-Plus not only does this in the mix tank, but afterward inside the plant, to allow efficient translocation of nutrients while enjoying the benefits of weed control.

Over 40 years have been spent developing and patenting technologies for plants and beneficial microbes, along with their extracts, which are now available in STS Turf products.





The Next Generation of Turf Nutrition

Specialty and Auxiliary





Solu-Plus[™]

1-0-1



Solu-Plus is a unique, organically complexed fermentation extract designed to extend nutrient availability. This "**Nutrient Mining Technology**™" takes approximately four weeks to complete.

Plant and soil health promoters include: bio-surfactants, microbial food sources, vitamins, enzymes, and trace elements. Solu-Plus contains an organic compound package totaling 37%!

Solu-Plus enhances the utility of any product you apply, including raw source materials, pesticides, fungicides, and herbicides.

FEATURES AND BENEFITS

- Nutrient Mining Technology[™] with highly functional groups of carboxylates and the ability to donate a charge, releases otherwise unavailable nutrients, then the chelating and complexing action of Solu-Plus stops the electro-magnetic attraction between positive and negative charged elements, which optimizes fertilizer absorption.
- This technology utilizes "Daltons" to represent constituent size. Foliar applied nutrients must be smaller than 600-700 Daltons to efficiently get through the plant cell structure. Solu-Plus is engineered to measure below 500 Daltons!
- Due to its rich concentration of organic compounds, **Solu-Plus** will assist in buffering poor quality water.



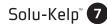
PRODUCT HIGHLIGHTS

- Multiple Rooting Stimulants
- Nutrient Mining Technology
- Proprietary Pre-Digestion Process
- Functional Groups of Phenols/Carboxylates
- Humic and other Organic Acids
- Enhanced Nutrient Delivery/Rate Reducer
- Chelating and Complexing Agents
- Natural Fermentation Extracts and Enzymes

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Ststurf The Next Generation of **Turf Nutrition**



1-1-4

Solu-Kelp[™]

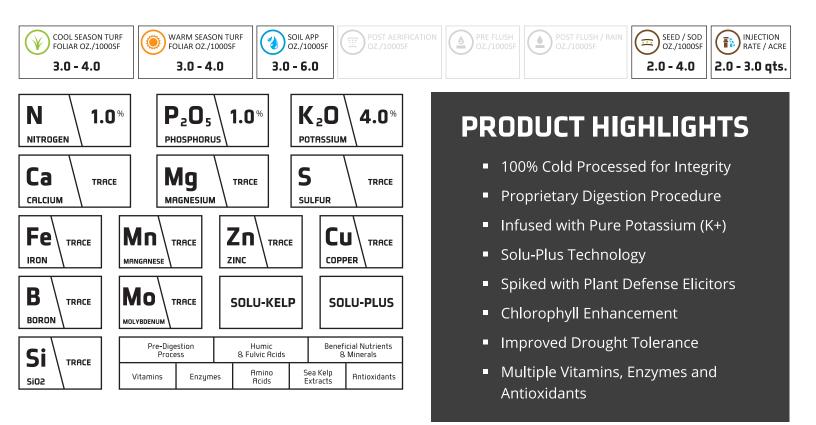


Solu-Kelp is a 100% cold processed, digested Norwegian Sea Kelp that provides a broad spectrum of nutrients, amino acids, polysaccharides, naturally occurring plant hormones, vitamins, enzymes, antioxidants, and polyphenols.

Our lengthy digestion process releases all plant beneficial constituents into solution, with no exposure to heat or caustic chemical extraction. Our exclusive Solu-Plus technology is incorporated to optimize bioactivity.

FEATURES AND BENEFITS

- 100% cold processing insures that heat sensitive constituents such as amino acids, polysaccharides, vitamins, and plant hormones remain safe during manufacturing.
- Contains primary, secondary, and micro nutrients, as well as, trace elements to promote soil biology, enhance turf health, and re-mineralize your soil.
- Enhances chlorophyll formation while improving stress tolerance through available antioxidants. Solu-Kelp is compatible with a wide array of products including raw source materials.





Solu-Amino[™]



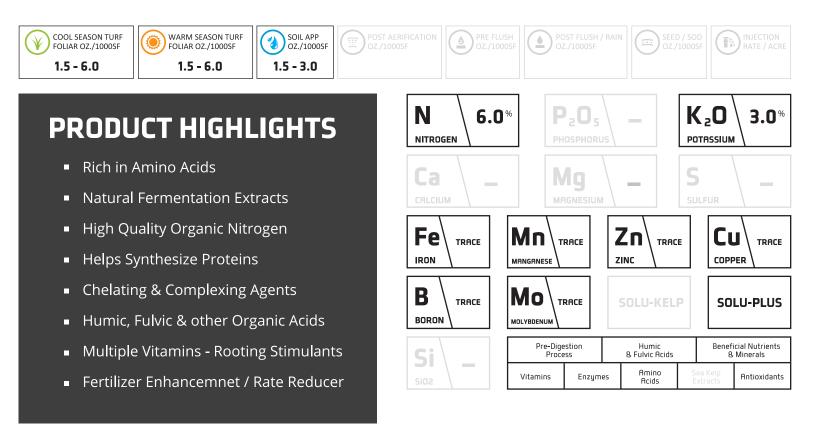


Solu-Amino 6-0-3 is a rich source of natural plant extracted amino acids, supplemented with a readily available organic nitrogen source. Solu-Amino 6-0-3 also contains our proprietary Solu-Plus technology, bio-surfactants, microbial food sources, vitamins, and enzymes.

Many of these components are pre-digested and easy for the plant to metabolize and derive energy from, thus optimizing turf and soil health.

FEATURES AND BENEFITS

- Solu-Amino 6-0-3 provides amino acids, along with organic nitrogen, to assist with complete protein production.
- Whether it is heat stress negatively impacting roots, low light intensity reducing turf density, or colder temperatures limiting organic nitrogen release, Solu-Amino 6-0-3 delivers a complete plant health package for pre-stress conditioning, as well as recovery.
- Solu-Amino 6-0-3 will work to improve efficiency of other products it is applied with, from raw source materials to soluble powders, whether they are foliar or soil applied.



To view this product label or other STS formulations, visit us online at **www.ststurf.com**



Solu-Oxy

20-0-2 w/3% Calcium



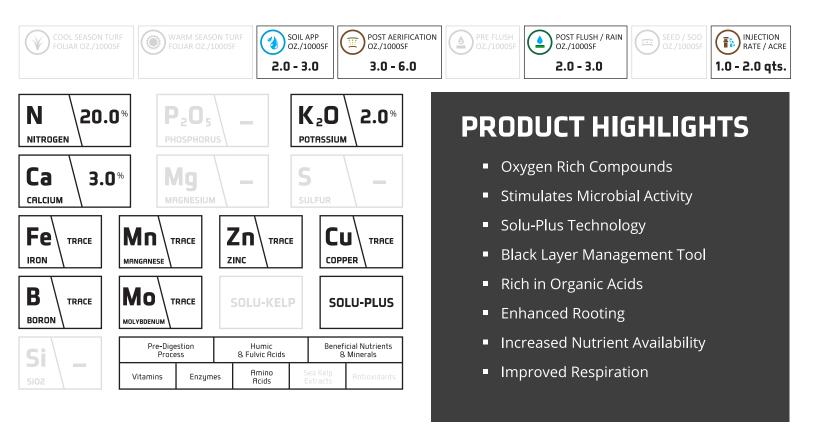
Oxygen kicks off the respiration cycle. Solu-Oxy 20-0-2 delivers oxygen rich compounds to the root zone to promote turf respiration and the aerobic metabolic pathway. Solu-Oxy must be watered in immediately after application.

The unique process, by which this product is manufactured, incorporates pre-digested amino, humic, and fulvic acids.

Other beneficial components include calcium, vitamins, enzymes and fermentation extracts.

FEATURES AND BENEFITS

- Solu-Oxy 20-0-2 delivers multiple forms of nitrate (NO₃), resulting in delivery of oxygen rich compounds where soil O₂ is needed, to naturally supplement and assist with promoting aerobic conditions, stimulate microbial activity, turf respiration, and rooting potential.
- This "Next Generation" product can be used as a management tool for anaerobic conditions such as black layer. Solu-Plus is included to further assist with nutrient availability, and uptake efficiency, while providing a rich source of carbon, complex carbohydrates, vitamins and enzymes.





Dr. Fermento[™]





Dr. Fermento is a natural plant growth stimulant based on fermented and extracted natural compounds and organic matter substrates and derivatives. Dr. Fermento contains digested cold processed sea kelp, a high concentration of digested and fermented fish to eliminate foul smell, humic and fulvic acids, digested and fermented grain rich in carbohydrates, plant extracted fermented protein hydrolysate rich in organic Nitrogen (N15) amino acids, minerals, and vitamins.

Ideal for post aerification! Apply 3-7 days after granular fertilizer and/or amendment applications to activate and better utilize nutrients while also working to degrade organic matter back into plant usable nutrients.

FEATURES AND BENEFITS

- Digested grain rich in carbohydrates
- Microbial inoculant that delivers a diversified package of beneficial bacteria and fungi.
- Digested cold-processed Sea Kelp with many benefits from chlorophyll formation to drought tolerance.
- Seven different beneficial extracts delivering nutrients, minerals, vitamins, and enzymes.
- Protein Hydrolysate that delivers essential amino acids and organic nitrogen (N15)
- Uniquely cold processed digested fish producing a high concentration / pleasant smelling product.



PRODUCT HIGHLIGHTS

- Cold Processed Digested Sea Kelp
- Cold Processed Digested Fish
- **Beneficial Aerobic Microbial Inoculant**
- Seven Different Fermentation Extracts
- **Digested Humic and Fulvic Acids**
- Protein Hydrolysate
- Minerals, Vitamins, Enzymes, Antioxidants

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SiO2	Vitamins	Enzym	es	Amin Acid			i Kelp racts	Antioxidants	

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Ststurf The Next Generation of **Turf Nutrition**



EMPRUV[™]





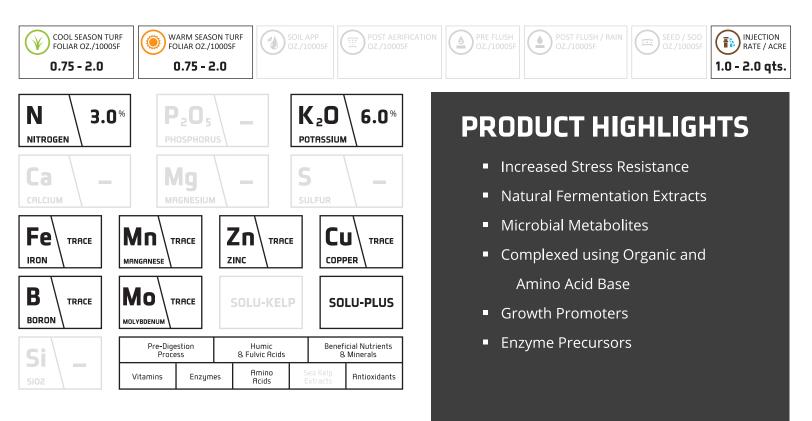
EMPRUV 3-0-6 rewards turf managers with reduced stress potential by providing multiple elicitors that will trigger plant defense mechanisms, as well as working to enhance the plant's own immune system. EMPRUV is a result of years of research and development.

Through our proprietary process, EMPRUV delivers a blend of natural fermentation extracts and microbial metabolites, natural growth promoters, enzyme precursors and components to enhance absorption.

FEATURES AND BENEFITS

- EMPRUV 3-0-6 could be part of a BMP fertility plan to naturally promote optimum plant health.
- Contains natural growth promoters and enzyme precursors.
- Rich blend of Natural Fermentation Extracts and Microbial Metabolites.

IMPORTANT: EMPRUV 3-0-6 is compatible with all STS products and most raw source materials. This includes soluble powders, calcium nitrate, potassium nitrate, lo-biuret urea, ammonium sulfate, and ammonium nitrate. Due to the many types of water quality, always perform a compatibility test prior to tank mix to identify any potential site-specific issues.





0-0-5



Photo-Boost 0-0-5 boasts more than 20% in organic components promoting turf density and rooting. This product is a result of our proprietary process and provides specific biologically fermented extracts. This advanced technology is formulated to increase turf's photosynthetic capacity, and should be applied via foliar spray applications only.

The 5% Potassium is derived from Potassium Carbonate, and then taken through our pre-digestion process to "gas-off" the oxide and provide potassium as ionic K+, which is stabilized and complexed to maintain the K+ in plant available form with no oxide or excess baggage.

IMPORTANT: Photo-Boost 0-0-5 is compatible with all STS products and most raw source materials. This includes soluble powders, calcium nitrate, potassium nitrate, lo-biuret urea, ammonium sulfate, and ammonium nitrate. Due to the many types of water quality, always perform a compatibility test prior to tank mix to identify any potential site-specific issues.

FEATURES AND BENEFITS

- Photo-Boost 0-0-5 is ideal for maximizing photosynthetic potential, turf density and rooting when grass is under stress, short days and/or low light conditions exist.
- Rich in pre-digested organic matter Over 20% organic components!
- Can be applied with other nutritional products as well as herbicides, insecticides and fungicides.
- Excellent for turf areas that are shaded!



PRODUCT HIGHLIGHTS

- Increases Turf's Photosynthetic Capacity
- Improves Density and Rooting Potential
- **Contains Natural Biological Surfactants**
- Enzymes and Natural Fermentation **Extracts**
- Contains natural organic and amino acids
- **Over 20% Organic Components**
- Apply as a True Foliar Spray Only
- Facilitates more efficient carbohydrate production

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Trees and Shrubs

3-2-3

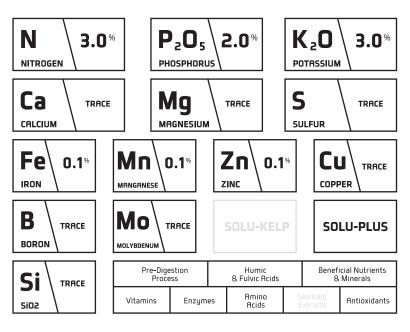


Trees and Shrubs provides a macro and micronutrient package, natural growth and rooting stimulants, our proprietary biosurfactant to enhance absorption, pre-digested humic and fulvic acid combining to deliver beneficial minerals, vitamins, and enzymes. As a part of our production process the specific microbial metabolites will trigger pathways at a cellular level to help optimize plant health and vigor.

Your deciduous and evergreen Trees and Shrubs will thrive from the multiple beneficial nutrients and auxiliary compounds delivered in this product.

FEATURES AND BENEFITS

- A complete nutritional product with plant beneficial auxiliary components
- Pre-digested Humic and Fulvic Acid to provide easily available carbon.
- Nature based stimulation of growth, health, and rooting.
- Enhances recovery and improves stress tolerance.
- Can be applied as a root drench, foliar and/or injected.
- Low rates with high efficiency will stretch your budget dollars!



Dilute Trees and Shrubs 3-2-3 with water prior to use.

Established Trees and Shrubs - Injection / Root Feeding

1 gallon of Trees and Shrubs 3-2-3 in 50 gallons of water (50:1 dilution). Inject 2 gallons of the diluted solution per inch of trunk diameter. Inject around drip line and about 2-3 feet apart in a grid pattern. Inject uniformly and up to a depth of 1.5 feet.

For Younger and Newly planted Trees and Shrubs Dilute at the same 50:1 ratio and inject 1 gallon of the diluted solution for every inch of trunk diameter.

Foliar Application

1 oz. of Trees and Shrubs 3-2-3 in 1 gallon of water and spray foliage thoroughly.

Caution: Some plants are more sensitive than others when foliar spraying. Apply to a small test plot area prior to making large scale applications.

PRODUCT HIGHLIGHTS

- Macro and Micronutrients
- Natural Growth and Rooting Stimulants
- Pre-digested Humic and Fulvic Acids
- **Reduced Transplant Stress**
- Colloidal Minerals, Enzymes, and Vitamins
- Increased Resistance to Abiotic Stress
- Microbial Metabolites and Antioxidants



Ststurf The Next Generation of **Turf Nutrition**

Nutri-CHO[™]





Nutri-CHO 1-4-4 is a base product for large scale applications to enhance whatever it is applied with. Our proprietary Solu-Plus is included to reduce surface tension and provide pre-digested humic and fulvic acid to optimize nutrient absorption. Nutri-CHO 1-4-4 contains a high concentration of simple and complex carbohydrates, along with an extensive nutrient package that includes macro and micronutrients.

Nutri-CHO 1-4-4 is rich in amino acids, highly functional carboxylates, vitamins, enzymes, minerals, and antioxidants.

FEATURES AND BENEFITS

- High content of carbohydrates in both simple and complex form
- Ideal to use with your Nitrogen source of choice to deliver multiple nutrients and promote plant health.
- Pre-digested humic and fulvic acids, amino acids, antioxidants, vitamins, and enzymes to reduce stress.
- Natural growth and rooting stimulants to reduce potential for drought and abiotic stress.
- Proprietary Bio-Surfactant aids in the availability and solubility of nutrients.
- 100% water soluble with nutrients in solution and readily available to the plant.
- Ideal for injection and/or application from Tee to Green!



PRODUCT HIGHLIGHTS

- Simple and Complex Carbohydrates
- **Proprietary Solu-Plus Technology**
- **Optimizes Nutrient Absorption**
- Humic, Fulvic and Amino Acids
- Multiple Vitamins and Enzymes
- Functional Groups of Phenols/Carboxylates

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Fe 0.3% Mn 0.6%				Zn 0.6% CU 0.				
B BORON 0.1%		.003*	S	SOLU-K	ELP	so	LU-PLUS	
	Pre-Dige Proce			Humic & Fulvic A			icial Nutrients Minerals	
Si02	Vitamins	Enzyme	es	Amino Acids		Sea Kelp Extracts	Antioxidants	

To view this product label or other STS formulations, visit us online at **www.ststurf.com**



\$T\$ Huma Rich[™]

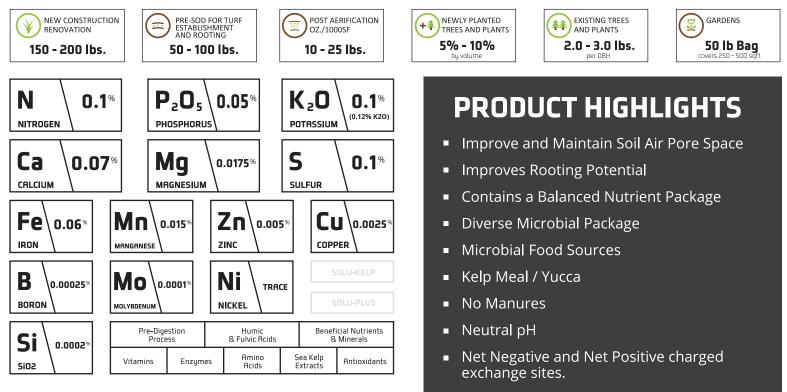


\$T\$ Huma Rich is the most comprehensive carbon-based root zone optimizer available! This product contains almost 94% Carbon in various forms. The primary carbon is derived from organic biomass biochar that utilizes engineered biocarbon™ technology that resists breaking down over time, even when using abrasive practices to drag into aerification holes, boasting a 1/2 life of 500 years. The hardness and integrity of this product will help with air pore space, water retention capabilities, offers net negative and net positive charged exchange sites for nutrient retention and is perfect for housing the microbial community. Other forms of carbon include a Humate Soil Conditioner, High Humic Acid content Leonardite fortified with 75 colloidal minerals while yet another source contains pre-digested

humic and fulvic acids with a diverse microbial inoculant. Years of research and development has yielded an elite product with sixteen (16) different ingredients, properly blended and balanced to optimize carbon, nutrients, air pore space, water holding capacity and beneficial microbial activity to ensure prolific plant color, health, and vigor. \$T\$ Huma Rich contains NO manures or high salt index products.

FEATURES AND BENEFITS

- pH Neutral Engineered Biocarbon[™] Technology increases soil porosity, improves the CEC, enhances ion exchange, nutrient, and water retention.
- Humate Soil Conditioner and Pre-Digested Humic and Fulvic to buffer salts and feed Microbes
- Balance of ALL Essential Nutrients + 75 Colloidal Minerals to Improve Nutrient Efficiency
- Diverse Microbial Inoculant with Bacteria, Fungi, Actinomycetes and Protozoa.
- Enhances seed germination and establishment Great in divot mix.
- Improves Drought Tolerance Ideal to use when relying on poor water quality.





The Next Generation of Turf Nutrition

Activator and Seasonal





STS Soil Activator

5-0-4 + MICROS

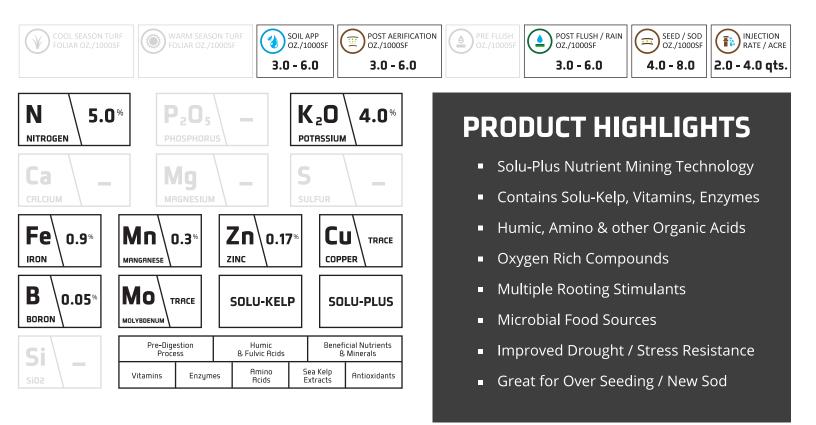


STS Soil Activator has been touted by superintendents as the most complete product they have ever used!

STS Soil Activator delivers primary and micro nutrients within a complete plant health package. Multiple technologies are combined in one container to provide end-users with many benefits, including our Nutrient Mining Technology, Solu-Plus, along with multiple rooting stimulants, Solu-Kelp, Yucca extract, easily available oxygen, various forms of organic acids such as amino, humic, fulvic and carboxylic, glycosides, natural plant extracts, vitamins, enzymes and more!

FEATURES AND BENEFITS

- STS Soil Activator promotes overall turf health and strategically promotes the aerobic metabolic pathway, thus reducing detrimental effects from environmental stress and aggressive cultural practices.
- Maximizes water use efficiency while providing an effective root zone feed with organic constituents to keep plant beneficial compounds in place.
- Enhances rooting and canopy density which makes it an ideal product for optimizing seed germination, as well as, quick establishment of sod.





STS Foliar Activator

6-0-4 +MICROS

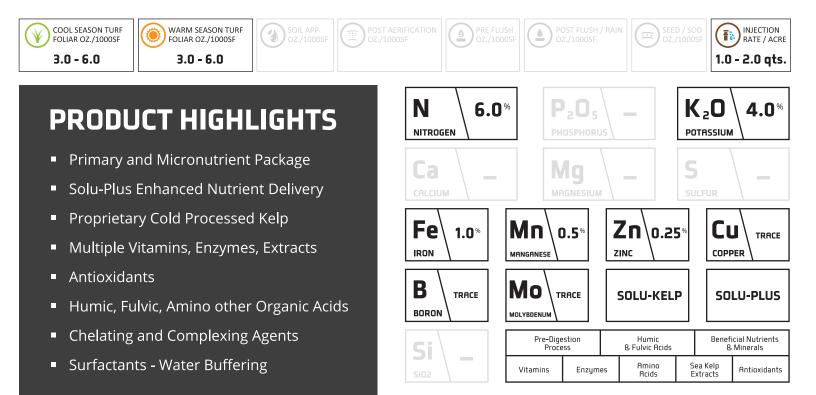


Proprietary constituents in STS Foliar Activator reduce surface tension and enhance foliar absorption. This is achieved by using organic surfactants and proprietary low molecular weight complexing and chelating agents that stop the electro-magnetic attraction between elements with positive and negative charges.

STS Foliar Activator delivers a complete and balanced micronutrient package, for optimum turf response.

FEATURES AND BENEFITS

- STS Foliar Activator contains our **Nutrient Mining Technology**[™], Solu-Plus, along with proprietary natural plant and fermentation extracts, Solu-Kelp, Yucca extract, antioxidants, glycosides, nitrogen and potassium.
- STS Foliar Activator also contains a comprehensive micronutrient package chelated with amino and organic acids.
- Due to its rich concentration of organic compounds, STS Foliar Activator not only optimizes nutrient absorption, it also enhances buffering potential when using poor quality irrigation water.



To view this product label or other STS formulations, visit us online at **www.ststurf.com**





STS Spring[™]

9-4-6 + **MICROS**

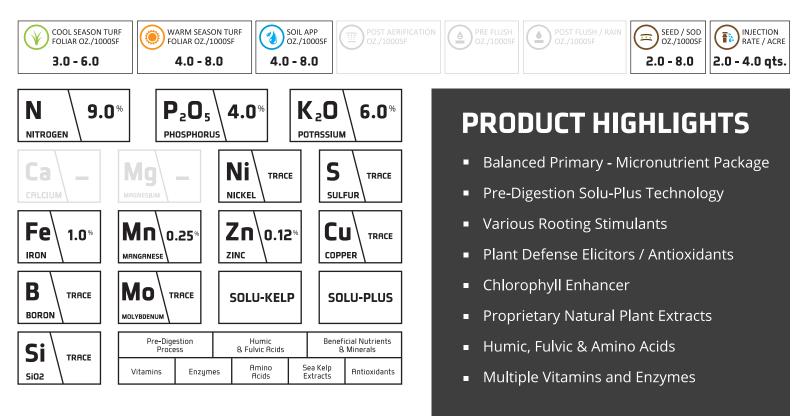


As a specialty product in The Next Generation of Turf Nutrition™, STS Spring 9-4-6 provides a complete macro and micronutrient package balanced to enhance and support spring root initiation in cool season grasses, while assisting warm season turf transition.

STS Spring will maximize your turf's potential for rooting, chlorophyll formation, carbohydrate production, rooting, drought tolerance, and energy transfer.

FEATURES AND BENEFITS

- STS Spring 9-4-6 delivers 14 of the 17 essential nutrients reducing the number of products needed to be applied via spray or injection, making this an ideal product for golf courses, sports fields, schools, playgrounds, and residential lawns.
- Our comprehensive amino acid package will assist your turf in meeting its biological objective; producing complete proteins to optimize plant health.
- Our proprietary natural plant extracts deliver key phytohormones that promote cell division, or cytokinesis, in plant roots and shoots.
- STS Spring 9-4-6 incorporates our *Nutrient Mining Technology* Solu-Plus, which plays a vital role in maintaining availability and plant absorption efficiency. The addition of Yucca and Solu-Kelp to this product create synergy to optimize chlorophyll production, increase drought tolerance while buffering poor water quality.





STS Summer[™]

7-0-9 + MICROS

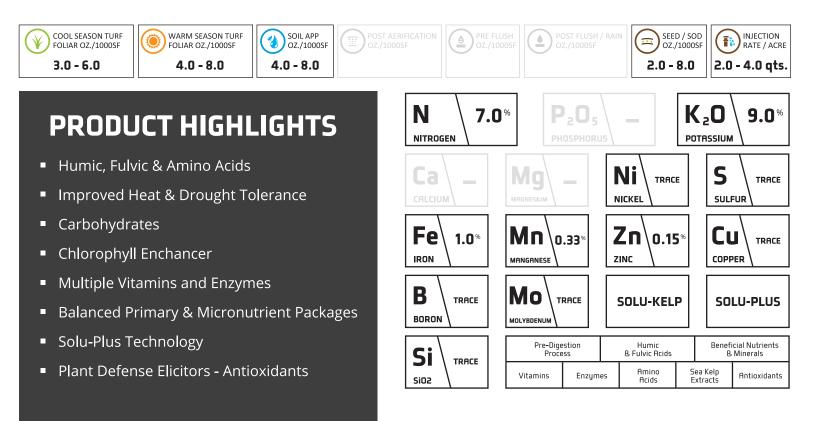


STS Summer 7-0-9 provides both nitrogen and potassium, along with a complete and balanced micronutrient package. STS Summer 7-0-9 reduces stressful conditions by maximizing the efficiency of water use and plant respiration.

When it's critical to maintain carbohydrate production during heat related stresses – STS Summer 7-0-9 delivers!

FEATURES AND BENEFITS

- STS Summer 7-0-9 includes 13 of the 17 essential nutrients reducing the number of products needed to be applied via spray or injection, making this an ideal product for golf courses, sports fields, schools, playgrounds, and residential lawns.
- STS Summer 7-0-9 can be easily tank mixed with Cal Mag 82 to deliver ALL 17 essential nutrients except Phosphate and Chlorine with only two products!
- STS Summer 7-0-9 incorporates our "Nutrient Mining Technology" Solu-Plus, which plays a vital role in maintaining nutrient availability to ensure plant absorption efficiency.



To view this product label or other STS formulations, visit us online at **www.ststurf.com**



STS Fall[™]



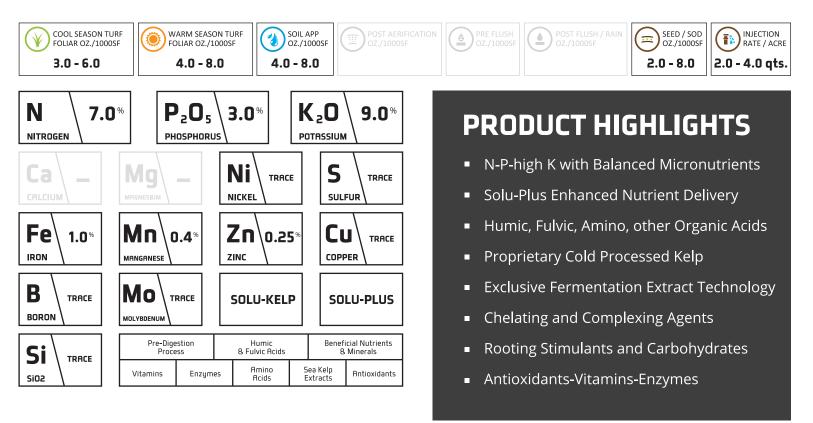


STS Fall 7-3-9 promotes a specific balance of both macro, and micronutrients, which will assist in optimizing fall re-root initiation, carbohydrate production, shorter days, lower light intensity, and transitioning to colder temperatures and/or dormancy.

The stronger your turf goes into winter, the stronger you come out in the spring!

FEATURES AND BENEFITS

- STS Fall 7-3-9 delivers 14 of the 17 essential nutrients reducing the number of products needed to be applied via spray or injection, making this an ideal product for golf courses, sports fields, schools, playgrounds, and residential lawns.
- Our proprietary natural plant and fermentation extracts, along with the addition of Yucca and Solu-Kelp, will work synergistically to assist with rooting, chlorophyll production and drought tolerance.
- Other components of STS Fall include organic compounds, amino, humic and fulvic acids, carbohydrates, plant defense elicitors and anti-oxidants.
- STS Fall 7-3-9 contains our *Nutrient Mining Technology* Solu-Plus, which plays a key role in assisting nutrients into the plant and preventing restrictions along the way.





STS Winter[™]

8-2-8 + MICROS



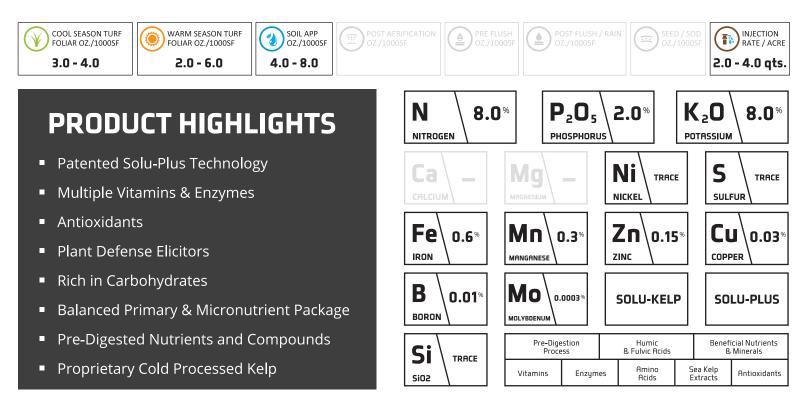
STS Winter 8-2-8 is engineered to enhance and support winter hardiness, while delivering a specific balance of nutrients to optimize plant availability during cooler temperatures. Technology driven, this product will help your turf conserve energy during shorter days, and low light intensity periods.

Boasting short chain nitrogen, with 75% of the N being in the form of Nitrate Nitrogen to maximize absorption, STS Winter is built to promote efficient conversion of nitrate nitrogen to NH₂, to ensure vascular balance and turf performance. This "Next Generation" product can be applied as a foliar spray, or watered in.

STS seasonal products can be used any time of year, but focus on specific needs of your turf during certain periods.

FEATURES AND BENEFITS

- STS Winter 8-2-8 delivers 14 of the 17 essential nutrients reducing the number of products needed to be applied via spray or injection, making this an ideal product for golf courses, sports fields, schools, playgrounds, and residential lawns. The addition of Solu-Plus plays a key role in assisting nutrients into the plant and preventing restrictions.
- The plant health package of natural plant and fermentation extracts, along with the addition of Yucca and Solu-Kelp, will work synergistically to assist with stress resistance, chlorophyll formation, and complete protein production.
- Other components include a full spectrum of amino acids, humic and fulvic acid, carbohydrates, plant defense elicitors, anti-oxidants and fermentation extracts.



To view this product label or other STS formulations, visit us online at **www.ststurf.com**



The Next Generation of Turf Nutrition

Essential Nutrients





Green's Green

18-2-5 + MICROS

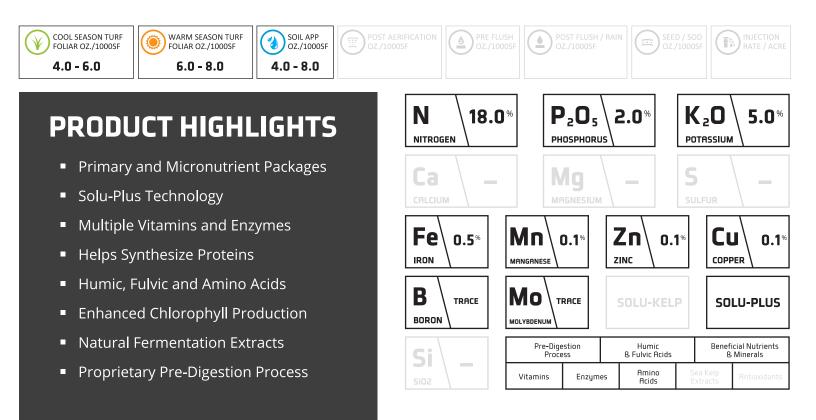


Green's Green is engineered to promote growth, health and color. Green's Green delivers highly available N-P-K, in addition to a micronutrient package, and is chelated with amino, humic and fulvic acids.

Other beneficial constituents include vitamins, enzymes and fermentation extracts. Our proprietary bio-surfactant technology is incorporated to reduce surface tension and enhance foliar absorption.

FEATURES AND BENEFITS

- Green's Green is ideal for promoting healthy growth and color in cool season grasses, as well as, dormancy break and transition in warm season grasses.
- Excellent tool for maintaining optimum clipping yield and turf quality throughout the growing season.
- Solu-Plus, the STS **Nutrient Mining Technology**[™] and nutrient extender is included in this product to assist your turf in utilizing the many beneficial nutrients and compounds without becoming restricted.



To view this product label or other STS formulations, visit us online at **www.ststurf.com**



12-2-2

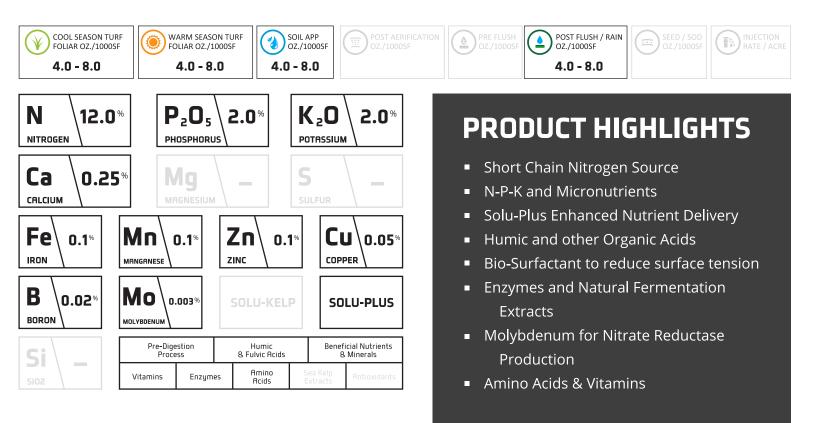


Cool N 12-2-2 is designed for foliar application during cooler weather conditions, as well as, year round soil applications, to promote optimum health and color. Cool N 12-2-2 delivers highly available N-P-K, in addition to a complete micronutrient package.

Our **Nutrient Mining Technology**[™], Solu-Plus, is included to maximize nutrient absorption and/or uptake.

FEATURES AND BENEFITS

- Cool N 12-2-2 is predominantly a nitrate (NO₃) based nitrogen source, which is ideal for promoting healthy growth and color during cooler periods, or in areas where fusarium pressure is an issue.
- Based on studies using various nitrogen sources, cool season grasses treated with the urea form of nitrogen, during wet, and cooler conditions, were more susceptible to a higher incidence of disease.
- Molybdenum is included to ensure nitrate reductase production, and help with phosphorus utilization.





Nitro-Blend[™]





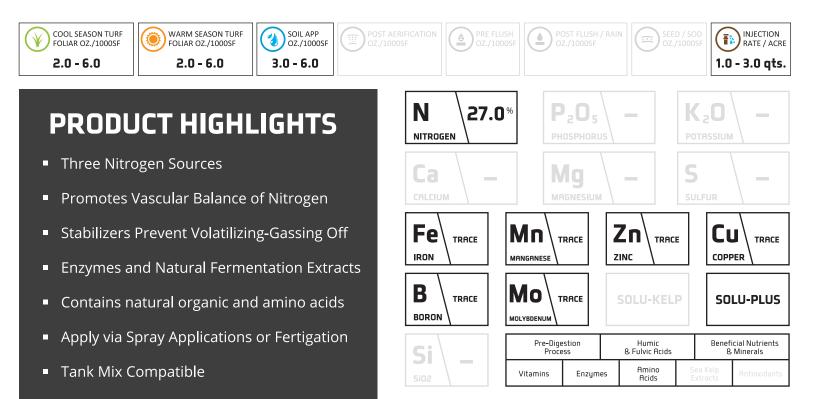
Nitro-Blend 27-0-0 is a high efficacy form of liquid Nitrogen designed for large area applications. Delivering a combination of Nitrogen sources along with our proprietary fermentation process to add extracts will enhance intake.

Nitro-Blend 27-0-0 contains pre-digested carbon and stabilizers to reduce potential for volatility and "gassing-off". Pre-digested organic acids along with vitamins and enzymes make this an ideal choice when spraving wall to wall.

IMPORTANT: Nitro-Blend 27-0-0 is compatible with all STS products and most raw source materials. This includes soluble powders, calcium nitrate, potassium nitrate, lo-biuret urea, ammonium sulfate, and ammonium nitrate. If adding another Nitrogen source, adjust the Nitro-Blend 27-0-0 rate accordingly to deliver the desired Nitrogen content. Due to the many types of water quality, always perform a compatibility test prior to the first tank mix to identify any potential site-specific issues.

FEATURES AND BENEFITS

- Nitro-Blend 27-0-0 delivers Urea, Ammonium and Nitrate forms of Nitrogen to promote vascular balance.
- Stabilized Nitrogen allows use of lower rates to achieve the desired results without risk of volatilizing.
- Compatible with a wide array of products and raw source materials.



To view this product label or other STS formulations, visit us online at **www.ststurf.com**



Ststurf The Next Generation of **Turf Nutrition**



3-15-0

Phospro[™]

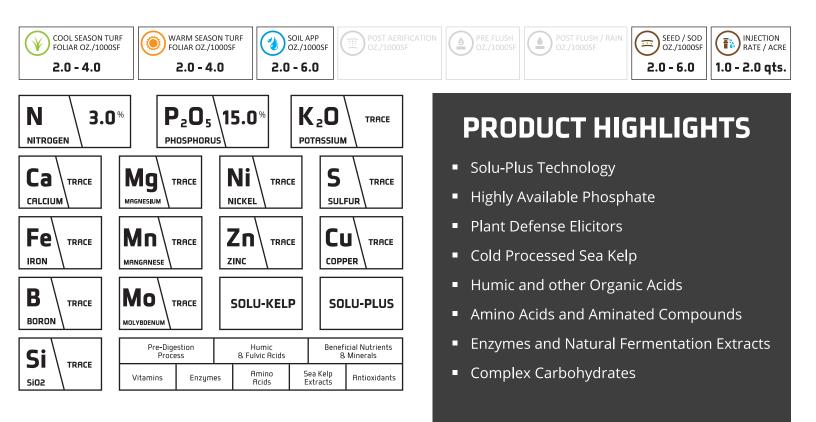


Phospro 3-15-0 delivers available phosphate (PO₄) to ensure optimum rooting, metabolic functioning, and energy transfer. Phospro 3-15-0 contains our proprietary cold processed Norwegian Sea Kelp (Ascophyllum Nodosum), which further enhances rooting potential, chlorophyll formation, and supplements plant health with vitamins, enzymes, anti-oxidants, plant defense elicitors, and fermentation extracts.

Contains Solu-Plus to further optimize rooting with multiple rooting stimulants.

FEATURES AND BENEFITS

- Phospro 3-15-0 contains plant available phosphate, a constituent of nucleic acids, phospholipids, coenzymes, and most importantly ATP.
- Our unique cold processed Solu-Kelp, complements the phosphorus, delivering naturally occurring phytohormones that promote cell division, or cytokinesis, in plant roots and shoots.
- Other components include organic compounds, amino, humic and fulvic acids, complex carbohydrates, anti-oxidants, plant defense elicitors, and fermentation extracts.





K Phos-Phyte[®]

<u>2-6-18 + MICROS</u> **PLUS 15% Phosphite / Phosphorous Acid**

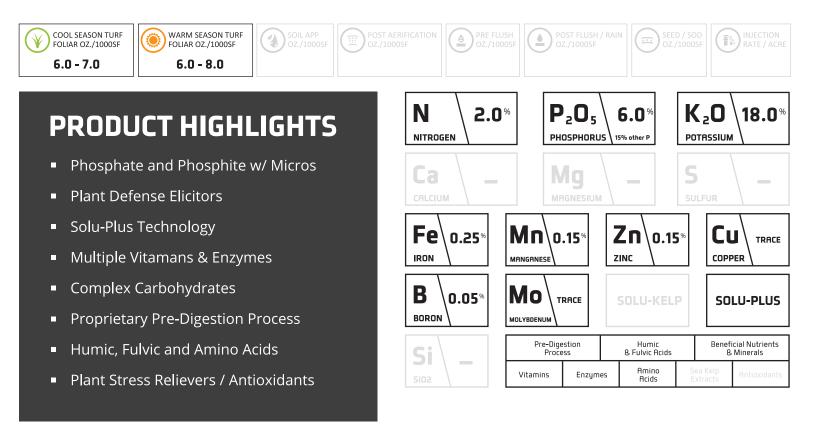


K Phos-Phyte delivers three sources of phosphorus, along with potassium, nitrogen, iron, manganese, zinc and boron. Complexed and/or chelated with amino, humic and fulvic acids.

Our proprietary bio-surfactant and plant health package is added to reduce surface tension, enhance foliar absorption and optimize the "Systemic Acquired Resistance".

FEATURES AND BENEFITS

- The high potassium constituent of this product assists with photosynthesis, metabolizing carbohydrates for the manufacture of amino acids and proteins, improves drought and wear tolerance, as well as, stress resistance.
- Excellent source of available phosphate (PO₄) to ensure energy transfer and extensive metabolic functions, while also delivering phosphorous acid (H₃PO₃) to undergo a degree of conversion to a phosphate ion.
- K Phos-Phyte also has available phosphite (PO_3) to trigger plant defense mechanisms.



To view this product label or other STS formulations, visit us online at **www.ststurf.com**



Foliar K27[™]



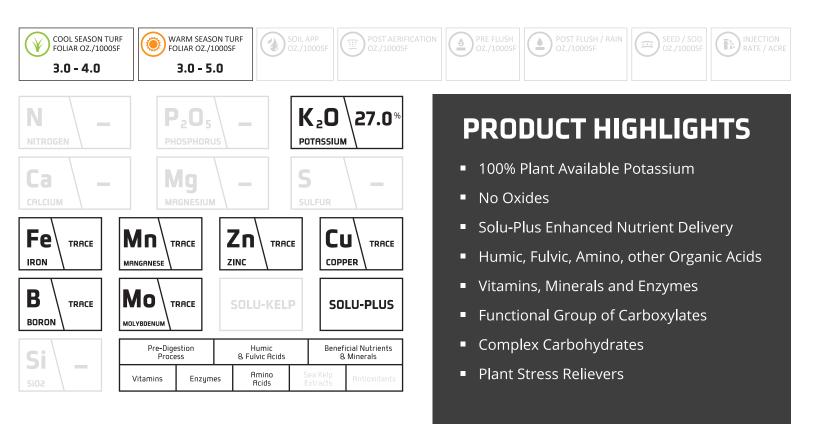


Foliar K-27 is a complexed liquid source of high grade potassium glucoheptonate. Fertilizer analyses express potassium as K₂O on the label, when the actual plant available form of potassium is K⁺.

Through our proprietary process, the elemental potassium source is reacted to gas off the oxide, resulting in K⁺ with no excess baggage. Foliar K-27 also contains two other proprietary sources of organic potassium and 15% organic acids.

FEATURES AND BENEFITS

- Foliar K-27 is pure potassium! A low salt index product that contains no oxides, such as chlorides, nitrates, carbonates, or sulfates.
- Foliar K-27 is formulated to assist with photosynthesis, and activate enzymes to metabolize carbohydrates for the manufacture of amino acids and proteins.
- This product facilitates cell division and growth by helping move complex carbohydrates and sugars between plant parts. Use as an effective tool to increase turf rigidity, and to boost tolerances to stress, drought, and general wear.









0-0-27 w/14% Calcium

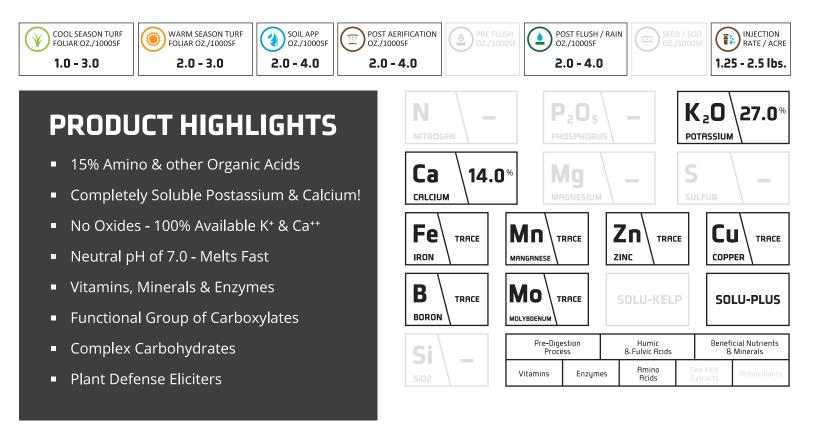


Pure K⁺ 0-0-27 with 14% Calcium is 100% soluble and boasts three (3) sources of potassium and calcium. The primary potassium and calcium sources are reacted to "gas off" the oxides, resulting in K⁺ and Ca⁺⁺!

Pure K⁺ contains two more organic forms of proprietary K and Ca, which are readily available. The potassium is complexed, while the calcium sources are fully chelated, using plant available organic based carriers.

FEATURES AND BENEFITS

- Pure K⁺ 0-0-27 with 14% Calcium provides a readily available source of potassium to assist with photosynthesis, and activate enzymes to metabolize carbohydrates for the manufacture of amino acids and proteins.
- This product will assist in the movement of complex carbohydrates and sugars, increase stem rigidity, boost drought and wear tolerance, and improve stress resistance.
- Pure K+ contains three high quality calcium sources that are incorporated to optimize energy, signaling, cell development and integrity, promote root growth, and aids in carbohydrate translocation, and nitrogen absorption.



To view this product label or other STS formulations, visit us online at **www.ststurf.com**



Cal Fresh 11% Calcium[™]

11% Ca / 0.2% B



This highly versatile liquid calcium product containing Solu-Plus, can be applied 3 different ways.

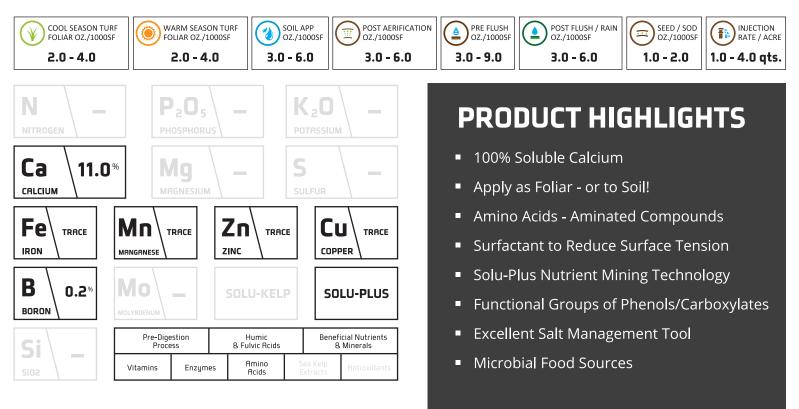
- 1. Apply as an efficient foliar spray that can be readily absorbed.
- 2. Apply to the soil prior to flushing to improve the ability to "Bump" sodium off negative charged exchange sites and put back in the soil solution, so with good water movement, accumulated sodium can be leached or flushed out of the root zone.
- 3. Apply after rains or deep watering to replenish soluble Calcium, optimize soil aggregation and water movement, while improving nutrient availability.

When applied to the soil, this product improves the turf manager's ability to "bump" sodium off the negative exchange sites and back into solution so it can be leached or flushed.

Cal Fresh can be applied post flush, to deliver calcium, optimize soil aggregation and water movement, while improving nutrient availability. Cal Fresh is also readily absorbed as a foliar spray.

FEATURES AND BENEFITS

- Cal Fresh with 11% Calcium incorporates two (2) sources of calcium, and also contains boron, which is often referred to as a "gate keeper" for calcium, improving uptake and translocation.
- Our high quality calcium sources are incorporated to optimize energy, signaling, cell development and integrity, promote root growth, aid in carbohydrate translocation, and nitrogen absorption.
- Highly effective as a foliar or a soil applied product.





Cal Mag 82[™]

8% Ca / 2% Mg



Cal Mag 82 contains two high quality sources of both Calcium and Magnesium. The Cal Mag 82 application rate should be determined based on irrigation water quality, Ca/Mg ratio, content, time of year, and/or availability of Calcium and Magnesium in the soil solution.

Cal Mag 82 is a versatile product that can be applied as a foliar, or lightly watered in for root uptake. Cal Mag 82 with STS Summer will provide all essential nutrients except Phosphorus with just two products!

FEATURES AND BENEFITS

- Our organic surfactants and proprietary pre-digestion processes provide low molecular weight complexing and chelating agents that stop the electro-magnetic attraction between positive and negative charged elements, this maintains nutrient availability, enhances turf absorption, and root uptake.
- Multiple vitamins, enzymes, and organic acids compliment our Calcium and Magnesium to conserve plant energy, maximize product utility, and extend plant health benefits.
- Calcium promotes cell division, integrity, and elasticity, ensures production of the highest quality calcium pectase, while also improving drought tolerance.
- Cal Mag 82 delivers Magnesium, which is vital for chlorophyll production, optimum color and growth, carbohydrate production and activates enzymes.



PRODUCT HIGHLIGHTS

- Patented Solu-Plus Technology
- Multiple Vitamins & Enzymes
- Aids in Nitrogen Absorption
- Cell Integrity and Elasticity
- Natural Fermentation Extracts
- Amino, Humic and Other Organic Acids
- Metabolism Translocation of Sugars
- Chelated Calcium and Magnesium

N NITROGEN						K2O –		
		1g Ignesium	1	2.0%	S	ILFUR	_	
		RACE			E	С	- \	
		RACE		SOLU-KEL	Р	SO	LU-PLUS	
Si \	Pre-Dige Proce	stion ss		Humic & Fulvic Acids			icial Nutrients Minerals	
Si02	Vitamins	Enzymes				ea Kelp xtracts	Antioxidants	

To view this product label or other STS formulations, visit us online at **www.ststurf.com**



6% Mg

Six Mag[™]

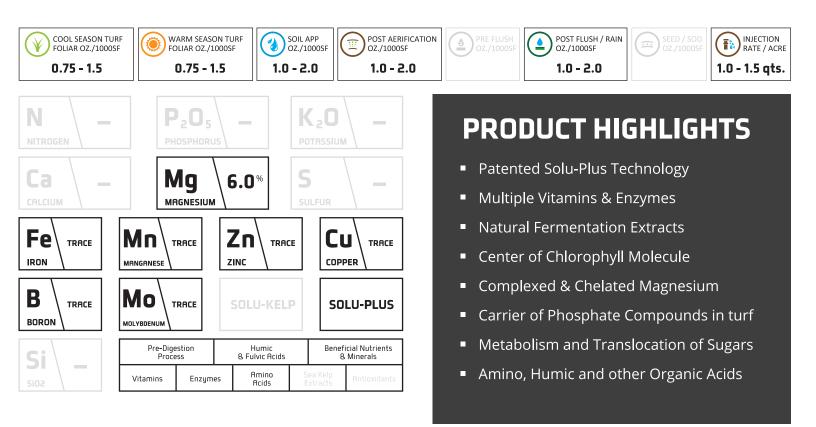


STS Six Mag contains two high quality, super hydrated sources of Magnesium to prevent precipitation. This product in the line of "Next Generation" products, can be applied as a foliar, sprayed and watered in for root uptake, or injected through your irrigation system.

STS Six Mag is complexed and chelated with organic and amino acids to ensure immediate availability.

FEATURES AND BENEFITS

- Our proprietary pre-digestion process provides low molecular weight complexing and chelating agents that stop the electro-magnetic attraction between positive and negative charged elements. This process maintains nutrient availability, enhances turf absorption and root uptake.
- Multiple vitamins, enzymes and organic acids compliment the Magnesium, to conserve plant energy, maximize utilization and extend plant health benefits.
- Magnesium is vital for photosynthesis, chlorophyll production, optimum color and growth, carbohydrate production and activates enzymes. Magnesium is the central atom of the chlorophyll molecule, with each molecule containing 6.7% Magnesium.





8% Iron Chelate[™]

8% Fe



8% Iron Chelate is a high analysis liquid product that contains the best quality sources of Ferric available, completely chelated, using plant beneficial compounds to promote plant health and vigor. Not another "me too" product - our proprietary pre-digestion process using iron fixing bacteria with this product yields an organically and biologically chelated "Next Generation" Iron product that delivers results at comparative low rates.

Rich in organic acids and plant beneficial compounds, this product is effective on all types of turfgrass and conditions. To deliver all the essential micronutrients in balance, combine 8% Iron Chelate with Micro Max in the desired ratio of Iron to Manganese, to ensure delivery of all needed micronutrients.

FEATURES AND BENEFITS

- 8% Iron Chelate is organically chelated using plant beneficial organic acids, biological processes, and fermentation extracts. The biologically chelated fraction also delivers valuable exudates.
- The combination of iron sources, vitamins, enzymes, and chelating technology, provide both a quick visual response and extended longevity.
- The addition of Solu-Plus works to maintain nutrient availability, enhance absorption and/or root uptake.
- In trials comparing iron products in a high salinity environment, 8% iron Chelate performed better with extended longevity of color when compared to other products it was tested against!



PRODUCT HIGHLIGHTS

- Multiple Chelated Iron Sources
- **Biologically Pre-Digested**
- Multiple Vitamins & Enzymes
- Aids in Chlorophyll Production
- Natural Fermentation Extracts
- Amino, Humic and Other Organic Acids
- Solu-Plus Technology
- Effective in All Growing Conditions

N NITROGEN	Р2О5 — РНОЅРНОВИЗ					K20 –		
Са	MF			-	S	ILFUR	-	
Fe 8.0%		RACE			E	С	- \	
		RACE		SOLU-KEL	Р	so	LU-PLUS	
Si	Pre-Dige Proce	estion ess	Humic Beneficial Nutrier & Fulvic Acids & Minerals					
Si02	Vitamins	Enzym	es	Amino Acids		ea Kelp xtracts	Antioxidants	

To view this product label or other STS formulations, visit us online at **www.ststurf.com**



Ststurf The Next Generation of **Turf Nutrition**

Micro Max[™]



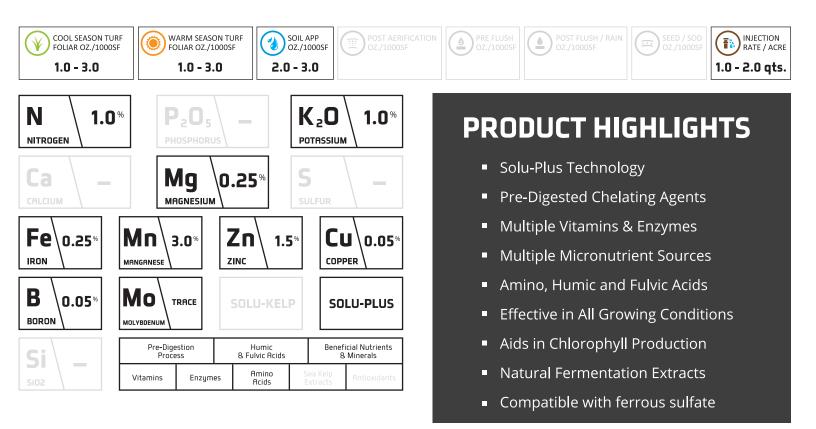


Micro Max was created to be a perfect tank mix partner when applied with 8% Iron Chelate, or other stand-alone iron products including ferrous sulfate. This product allows you to target a desired Iron to Manganese ratio based on various site specifics such as type of turf grass and/or time of year.

Rich in organic acids and plant beneficial compounds, this product is effective on all types of turfgrass during any condition.

FEATURES AND BENEFITS

- Micro Max offers the highest quality micronutrient sources, organically chelated, using plant beneficial pre-digested compounds that can be easily metabolized to facilitate efficient absorption, and maximize turf health response.
- Whether it is chlorophyll or carbohydrate production, cell wall integrity or enzymatic responses, Micro Max ensures you have no limiting factors when it comes to micronutrients.
- The addition of Solu-Plus in this product, works to maintain nutrient availability, enhance turf absorption, and/or root uptake. Multiple vitamins, enzymes and organic acids compliment the micronutrient package. To deliver all the essential micronutrients in balance, combine Micro Max and 8% Iron Chelate.





Response 2-0-6 w/micros[™]

2-0-6 + MICROS



Response 2-0-6 contains a comprehensive nutrient package that includes nitrogen, potassium, iron, manganese, zinc, copper, boron, molybdenum, cobalt and silica.

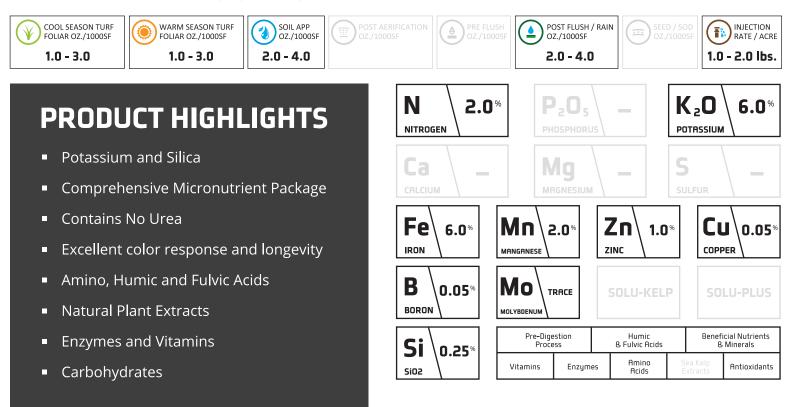
Response 2-0-6 was designed specifically for turf grass to optimize performance, color and health.

Response 2-0-6 contains no Urea and is derived from Potassium Nitrate so there are no limitations when you can use this product or in what type of environment. Effective any time of year!

STS uses only the highest quality organic components, then pre-digests them, resulting in a turf health package that delivers stabilized and complexed primary nutrients, fully chelated secondary and micronutrients, along with vitamins, enzymes, and other plant beneficial compounds.

FEATURES AND BENEFITS

- Specifically formulated for turf grass, incorporating proprietary complexing and chelating technology that uses pre-digested and readily available organic compounds to maximize energy.
- Optimum "Response" and longevity through efficient chlorophyll formation, while also assisting with the manufacture of carbohydrates, amino acids, and complete protein production.
- Reduces the number of spray tank inputs needed.



To view this product label or other STS formulations, visit us online at **www.ststurf.com**



0-0-1

Sili-Kick[™]

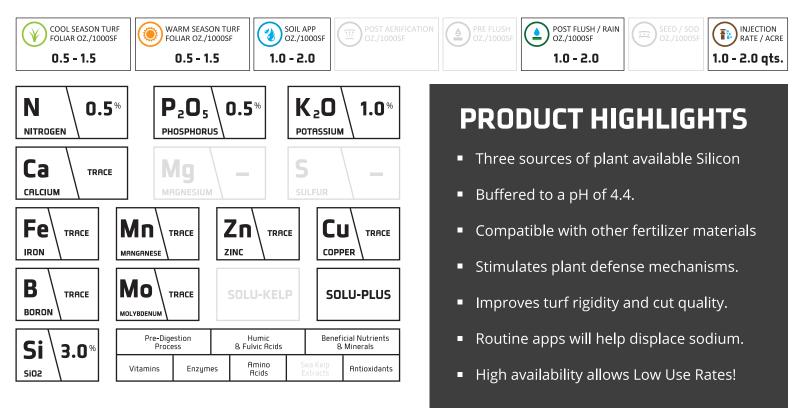


Sili-Kick is the result of many years of stability testing to make a bio-available silicon-based product that can be easily tank mixed with other fertilizer materials. This product boasts three (3) different sources of silicon and is buffered to a pH of 4.4, allowing tank mixing with everything from phosphate to calcium-based formulations, including raw source materials!

STS implements our proprietary digestion process, the product is then stabilized and remains available so low use rates will yield all the benefits associated with Si such as stimulating plant defense mechanisms, improving rigidity, displacing sodium to create a healthier, happy plant while reducing abiotic stress.

FEATURES AND BENEFITS

- Three (3) sources of stabilized Silicon provide a versatile product that remains bio available.
- Can be easily tank mixed with other fertilizers so stand-alone applications of Si are no longer required.
- Low use rates exceed the results of other high analysis Silicon products due to availability.
- Pre-Tournament applications using Pure K+ and Sili-Kick have yielded rave reviews for rigidity and speed.
- Silicon strengthens the cell wall of plants, giving the leaf blade strength and rigidity.
- 0.5% Nitrogen derived from Amino Acids.



To view this product label or other STS formulations, visit us online at www.ststurf.com





OxyGrass Pro[™]

100% SiO₂

OxyGrass Pro is 100% silica dioxide (SiO₂), ground into a 27 micron particle, programmed through multiple proprietary processes, with the finished product holding an electrostatic charge, that pulses at the Extremely Low Frequency (ELF) of 7.8 Hz (see *Schumann's Resonance below).

Once OxyGrass Pro contacts water, the ELF pulse begins resonating for 500 hours, promoting the aerobic metabolic pathway, creating an environment of increased redox potential, catalytic and electrolytic exchanges between soil, the turf, and organic matter(s).

*Schumann resonances (SR) are a set of spectrum peaks in the extremely low frequency portion of the Earth's electromagnetic field spectrum. Schumann resonances are global electromagnetic resonances, generated and excited by lightning discharges in the cavity formed by the Earth's surface and the ionosphere.

Without OxyGrass Pro

SOIL DECOMPACTION



LEFT: Without OxyGrass Pro RIGHT: With OxyGrass Pro

BETTER ROOT DEVELOPMENT





Without OxyGrass Pro

With OxyGrass Pro



Without OxyGrass Pro



With OxyGrass Pro

With OxyGrass Pro

PRODUCT HIGHLIGHTS

- 27 Micron Silica Dioxide (SiO₂)
- Emits Extremely Low Frequency Energy
- Promotes Aerobic Metabolic Pathway
- Stimulates Rooting
- Enhances Aerobic Microbial Activity
- **Optimizes Photosynthesis**
- Thatch Management Tool
- **Helps Reduce Compaction**



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Call us Toll-Free 855-200-TURF(8873) • 1597 E. Center Street • Lewiston, UT, 84320



3-0-0

Krusty[™] Soil Surfactant

Krusty[™] is a soil conditioner for use on all soils, based on fully biodegradable components, non-ionic surfactants and polymers, complexed with organic and amino acids.

Krusty is not a plant food product.



COOL SEASON TURF	WARM SEASON TURF	SOIL APP	POST AERIFICATION	PRE FLUSH	POST FLUSH / RAIN	SEED / SOD	INJECTION
FOLIAR OZ./1000SF	FOLIAR OZ./1000SF	OZ./1000SF	OZ./1000SF	OZ./1000SF	OZ./1000SF	OZ./1000SF	RATE / ACRE
		2.0 - 8.0		4.0 - 6.0			0.5 - 2.0 qts.

FEATURES AND BENEFITS

- Aids in water penetration, infiltration, and reduces run-off.
- Improves water distribution and depth of moisture penetration.
- Organic and Amino Acids in Krusty enhance nutrient availability and microbial activity.
- Contains no salts Very stable at a low pH. Active Ingredients: natural polymers and derivatives.
- Proprietary soil conditioning package will help to reduce compaction.
- Improves solubility of nutrients and their uptake, while also stimulating microbial activity.

PRODUCT HIGHLIGHTS

- Contains No Salts
- Very Stable in Low pH
- Organic and Amino Acids
- Non-ionic Organic Surfactant
- Stimulate Microbial Activity
- Improve Nutrient Uptake and Availability
- Organic and Biodegradale Ingredients
- **Highly Effective Soil Penetrant**
- **Reduced Compaction**

To view this product label or other STS formulations, visit us online at **www.ststurf.com**



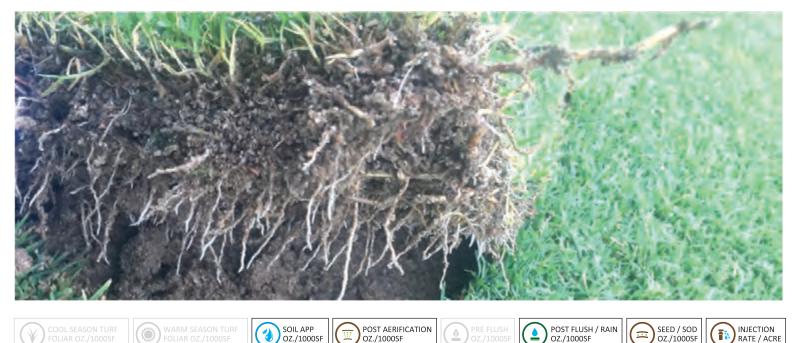
Move N Hold[™] Wetting Agent

5-0-0

Move N Hold[™] is a soil conditioner, based on fully biodegradable components, non-ionic surfactant and polymers, complexed with organic and amino acids.

Active Ingredients: Natural polymers and derivatives. Move N Hold™ is not a plant food product.

3.0 - 6.0



3.0 - 6.0

PRODUCT HIGHLIGHTS

- Contains No Salts
- Very Stable in Low pH
- **Organic and Amino Acids**
- Non-ionic Organic Surfactant
- Stimulate Microbial Activity
- Improve Nutrient Uptake and Availability
- Organic and Biodegradale Ingredients
- **Highly Effective Soil Penetrant**
- **Reduced Compaction**

FEATURES AND BENEFITS

Aids in water penetration, reduced run-off, and uniform soil moisture.

3.0 - 6.0

3.0 - 6.0

0.5 - 2.0 ats.

- Retains moisture in sandy soils to reduce water use, and help manage Localized Dry Spot (LDS).
- Organic & Amino Acids in Move N Hold[™] can enhance nutrient availability and stimulate microbial activity.
- Contains no salts Very stable at a low pH.

To view this product label or other STS formulations, visit us online at **www.ststurf.com**

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Green+ER[™]



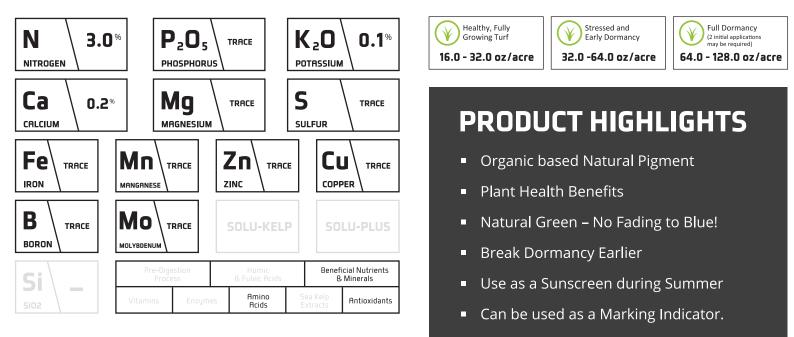
Green+ER is a custom formulated natural pigment-based additive for turf grass that uses the highest quality organic components and has been engineered to restore and replace natural color loss due to dormancy, stress, drought, wear, etc.

This product can be used any time of year.

FEATURES AND BENEFITS

Green+ER Vs. Overseeding:

- No Course Shutdown
- No Seed Prep Greatly Reduces or Eliminates Seed Cost
- **Reduced Water Use**
- **Reduced Fertilizer Cost**
- **Reduced Wear and Tear on Equipment**
- **Reduced Labor Cost**
- Break Dormancy Earlier and Transition to a Healthy Dense Canopy!
- Organic base provides plant health benefits in addition to providing the best natural color.
- Can be used as a spray indicator to provide additional benefits.
- Great in high traffic areas that are susceptible to being off color.
- Increases canopy temperature in the winter and acts like sunscreen in the summer.



To view this product label or other STS formulations, visit us online at **www.ststurf.com**

STS Plant Health Analysis

PRODUCT	N	P₂O₅	K₂0	Са	Mg	s	Fe	Mn	Zn	Cu	В	Мо	SiO2	Ni	Solu Kelp	Solu Plus	Weight/Gal (lbs)	Weight/Gal (Kgs)	рН
8% Iron Chelate	-	-	-	-	-	-	8	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	Y	10.00	4.53	6.5
CAL FRESH	-	-	-	11	-	-	TRACE	TRACE	TRACE	TRACE	0.2	-	-	-	N	Y	11.26	5.10	4.5
CAL MAG 82	-	-	-	8	2	-	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	Y	11.66	5.29	4.5
COOL N	12	2	2	0.25	-	-	0.1	0.1	0.1	0.05	0.02	0.003	-	-	N	Y	10.50	4.76	5.5
DR. FERMENTO	1	1	1	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	Y	Y	9.64	4.37	4.2
EMPRUV	3	-	6	-	-	-	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	Y	10.25	4.65	5.4
FALL	7	3	9	-	-	-	1	0.4	0.25	TRACE	TRACE	TRACE	-	-	Y	Y	10.75	4.88	5.2
FOLIAR ACTIVATOR	6	-	4	-	-	-	1	0.5	0.25	TRACE	TRACE	TRACE	-	-	Y	Y	10.27	4.66	6.1
FOLIAR K27	-	-	27	-	-	-	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	Y	11.24	5.1	7.5
GREEN+ER	3	TRACE	0.1	0.2	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	N	10.00	4.53	9.1
GREENS GREEN	18	2	5	-	-	-	0.5	0.1	0.1	0.1	TRACE	TRACE	-	-	N	Y	10.44	4.73	5.5
HUMA RICH	0.1	0.05	0.1	0.07	0.0175	0.1	0.06	0.015	0.005	0.0025	0.00025	0.0001	-	TRACE	N	Ν	-	-	N/A
K PHOSPHYTE	2	6+15	18	-	-	-	0.25	0.15	0.15	TRACE	0.05	TRACE	-	-	N	Y	11.00	4.73	5.5
KRUSTY	3	-	-	-	-	-	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	Y	8.84	4.01	5
MICRO MAX	1	-	1	-	0.13	-	0.25	3	1.5	0.05	0.05	TRACE	-	-	N	Y	10.00	4.53	4.5
MOVE N HOLD	5	-	-	-	-	-	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	Y	8.92	4.05	6.2
NITRO-BLEND	27	-	-	-	-	-	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	Y	10.70	4.85	8.1
NUTRI-CHO	1	4	4	TRACE	TRACE	TRACE	0.3	0.6	0.6	0.1	0.1	TRACE	-	-	N	Y	10.20	4.63	5.5
OXYGRASS PRO	-	-	-	-	-	-	-	-	-	-	-	-	46	-	N	N	-	-	N/A
PHOS PRO	3	15	-	-	-	-	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	Y	Y	10.00	4.53	6.5
PHOTO-BOOST	-	-	5	-	-	-	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	Y	9.60	4.35	5.5
PURE K ⁺ 0-0-27	-	-	27	14	-	-	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	Y	N/A	N/A	7
RESPONSE 2-0-6	2	-	6	-	-	-	6	2	1	0.05	0.05	TRACE	0.25	-	N	N	N/A	N/A	4.8
SILI-KICK	0.5	0.5	1	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	Y	9.80	3.63	4.4
SIX MAG	-	-	-	-	6	-	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	Y	11.50	5.22	3.9
SOIL ACTIVATOR	5	-	4	-	-	-	0.9	0.3	0.17	TRACE	0.05	TRACE	-	-	Y	Y	10.00	4.53	5.5
SOLU-AMINO	6	-	3	-	-	-	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	Y	9.84	4.46	5.2
SOLU-KELP	1	1	4	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	Y	Y	9.66	4.38	6.5
SOLU-OXY	20	-	2	3	-	-	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	Y	10.76	4.88	6.5
SOLU-PLUS	1	-	1	-	-	-	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	-	-	N	Y	9.76	4.42	6
SPRING	9	4	6	-	-	-	1	0.25	0.12	TRACE	TRACE	TRACE	-	-	Y	Y	10.60	4.80	5.7
SUMMER	7	-	9	-	-	-	1	0.33	0.15	TRACE	TRACE	-	-	-	Y	Y	10.08	4.58	5.5
TREES & SHRUBS	3	2	3	TRACE	TRACE	TRACE	0.1	0.1	0.1	TRACE	TRACE	TRACE	-	-	N	Y	9.60	4.35	6.0
WINTER	8	2	8	-	-	-	0.6	0.3	0.15	0.03	0.01	0.0003	-	-	Y	Y	10.76	4.88	5.4



Sample Formulations

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STS 2 Product Base Mix		
Summer 7-0-9 w/Micros Cal Mag 82	2.5 gal./acre 1.0 gal./acre	This simple 2 product "Base Mix" provides a foundation of essential nutrients along with Solu-Plus, fermentation extracts, cold processed Solu-Kelp, amino, humic and fuvic acids, vitamins, enzymes, and more.
STS 3 Product Base Mix		
Fall 7-3-9 Foliar Activator 6-0-4 Green's Green 18-2-5	1.5 gal./acre 1.5 gal./acre 1.5 gal./acre	This 3 product mix for actively growing turf provides a good dose of N-P-K, along with a complete micronutrient package. Also included are Solu-Plus, yucca extract, cold processed Solu-Kelp, amino, humic and fuvic acids, vitamins, enzymes, and more.
STS 4 Product Base Mix		
Summer 7-0-9 w/micros Foliar Activator 6-0-4 Green's Green 18-2-5 Cal Mag 82	1.25 gal./acre 1.0 gal./acre 1.0 gal./acre 1.0 gal./acre	This product combo delivers ALL the essential nutrients! Along with the nutrients needed for strong turf, this comprehensive package includes Solu-Plus, fermentation extracts, cold processed Solu-Kelp, pre-digested amino, humic and fuvic acids, vitamins, enzymes, and much more.
STS Defense Elicitor - Plan	t Health an	d Recovery Mix
K Phos-Phyte 2-7-18 w/14% Phosphite Green's Green 18-2-5 Photo-Boost 0-0-5 EMPRUV 3-0-6 Solu-Kelp 1-1-4 8% Iron Chelate Micro Max Sili-Kick	2.0 gal./acre 1.5 gal./acre 2.0 qts./acre 2.0 qts./acre 2.0 qts./acre 2.0 qts./acre 2.0 qts./acre 1.0 qt./acre	This unique product combination delivers thousands of specific microbial metabolites along with Phosphite, Phosphorus acid and Silica to trigger plant defense mechanisms, boost the immune system and optimize plant health, increase stress tolerance while also working to enhance recovery potential.
STS Tournament Mix - Spe	ed and Colo	
Pure K+ 0-0-27 w/14% Ca Summer 7-0-9 w/micros Solu-Kelp 1-1-4 8% Iron Micro Max Six Mag Sili-Kick	8.33 lbs./acre 1.0 gal./acre 1.0 gal./acre 3.0 qts./acre 3.0 qts./acre 2.0 qts./acre 1.0 qt./acre	Delivers 4 times more K than N to improve turf rigidity and ensure fast greens! All the essential nutrients are applied to optimize health, improve drought resistance and stress tolerance, while promoting color that you can be proud of! This comprehensive nutrient and auxillary package provides a high concentration of amino acids along with pre-digested humic and fuvic acids, stress relievers, anti-oxidants, vitamins and enzymes.
STS Pre Rain or Salt leach	ing	
Cal Fresh 11% Ca Krusty	1.5 gal./acre 1.5 gal./acre	Multiple surfactant technologies reduce surface tension and improve water movement. Soluble calcium, organic acids and aminated compounds further aid leaching efficiency and the reduction of detrimental salt accumulation.
STS Post Rain or Heavy Irr	igation to F	lush Salts
Potassium Nitrate Calcium Nitrate Pure K+ 0-0-27 w/14% Ca Response 2-0-6 w/Micros STS Soil Activator 5-0-4 Solu-Oxy 20-0-2 w/3% Ca Six Mag Solu-Plus 1-0-1	12.5 lbs./acre 12.5 lbs./acre 4.17 lbs./acre 8.33 lbs./acre 1.0 gal./acre 2.0 qts./acre 2.0 qts./acre 1.0 qt./acre	When rain or heavy irrigation / flushing occurs, detrimental salts get leached along with valuable nutrients. This mix is designed to apply Nitrate Nitrogen, K-Ca, along with Magnesium and all micronutrients to optimize soluble nutrient balance while supplementing with beneficial compounds such as rooting stimulants, oxygen rich compounds, yucca, bio-surfactants, organic acids, vitamins, enzymes, and so much more. Water in immediately after application.
		s / Compost Tea Materials

STS offers fertilizer and soil amendement blends based on site-specific analyses - Time of Year - Objective

Custom Blended Fertilizer Formulations - Choose from multiple sources of raw source materials, organics, slow and/or fast release, carbon, humate soil conditioner, statically adhered micronutrients, diversified microbial inoculants, sea kelp, yucca, humic, fulvic, treated compost, 75 colloidal minerals and more!

Consult your STS Turf rep for a custom fertilizer quote!

Sample Formulations

STS Soil Conditioning - Microbial - Post Aerification - Seed Germination - Sod Establishment

OxyGrass Pro SiO2 Pure K+ w/14% Ca STS Soil Activator 12-0-0 w/6% Fe/2% Mn Solu-Oxy 20-0-2 w/3% Ca Six Mag Dr. Fermento Solu-Plus 1-0-1	8.33 lbs./acre 1.0 gal./acre	After aerification, spiking, seeding, laying sod, and/or granular N-P-K applications, this mix will help optimize utilization of the materials applied, while also inoculating the soil with beneficial aerobic microorganisms, to promote a holistic approach to healthy turf management. Also included are multiple microbial food sources, easily available oxygen, multiple rooting stimulants, bio-surfactants, fermentation extracts, organic acids, vitamins, enzymes, and more. Fill tank almost full before adding Dr. Fermento and Solu-Plus. Water in immediately after application.
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STS Acidification Mix Partnered with Raw Source Materials

Solu-Plus 1-0-1 3.0 qts./acre Ammonium Sulfate 12.5 bs./acre Ferrous Sulfate 12.5 bs./acre Potassium Nitrate 12.5 lbs./acre 2.5 lbs./acre Magnesium Sulfate Manganese Sulfate 2.5 lbs./acre Micro Max 3.0 qts./acre Solu-Kelp 1-1-4 3.0 qts./acre Designed to acidify the soil when basic or alkaline soil conditions exist, ideal for Bent and Bermuda grass! STS combines raw source materials with specific STS products to balance, chelate and complex with plant beneficial compounds to provide greater initial response, while also working to extend the nutrients availability based on our *Nutrient Mining Technology*[™]. Best if Flood Jet Nozzles are used to deliver 3 to 5 gallons/1000sf of water as a carrier to prevent nozzle issues, and more safely deliver the high sulfate-based mix and truly acidify the upper soil profile for improved nutrient availability.

Can use 0-0-50 in place of Potassium Nitrate depending on time of year and site-specifics. Ferrous and Manganese Sulfate rates can vary based on water carrier used, conditioning of the turf to accept higher rates, the time of year and temperatures.

STS Cold Weather Mix - Photosynthesis Optimizer - Improve Canopy Density

Response 2-0-6 w/Micros 8.33 lbs./acre 8.33 lbs./acre Pure K+ 0-0-27 w/14% Ca Cool N 12-2-2 2.0 gal./acre Photo-Boost 0-0-5 1.0 gal./acre STS Winter 8-2-8 0.5 gal./acre Six Mag 0.5 gal./acre EMPRUV 3-0-6 0.5 gal./acre 0.5 gal./acre Solu-Amino 6-0-3 Sili-Kick 0.25 gal./acre This formulation utilizes primarily short chain nitrogen, and delivers highly available K to promote cold tolerance and hardened turf that will be more resistant to stress during poor weather conditions. All nutrients are delivered simultaneously in balance to ensure no limiting factors. Solu-Amino is a rich source of organic nitrogen (N15) and amino acids to assist the plant during periods when lower soil temperatures are not providing what is needed for protein production. Photo-Boost will work to optimize photosynthesis during short days and low light conditions. If afternoon temperatures are above 70 F, this can also be lightly watered in to promote root uptake.

STS Product Formulations using Soluble Powders to Address Budget Restraints

Soluble 17-5-17Winter MixesSoluble 15-5-25Fall and WinterSoluble 28-8-18Spring and SummerSoluble 15-0-15Soil Based AppsSoluble 13-0-44Soil Based AppsSoluble 20-20-20Spring through FallSoluble 25-5-20Spring through Fall

Call your local STS Turf rep to develop the right nutrient balance for your site specifics STS Turf products will enhance efficiency of absorption and / or uptake, as well as extending longevity of applications made by partnering the soluble powder products on the right with our exclusive "Pre-Digested" technology and patent pending Nutrient Extender Technology. The numerous auxillary compounds, surfactants, organic acids, vitamins, enzymes, anti-oxidants and stress relievers will enhance whatever you apply it with!

- EXAMPLE of Soluble Powder combined with STS Products to optimize results in Winter

Soluble 17-5-17 (Cal-Mag Special) Response 2-0-6 w/Micros		All Essential Nutrients are delivered in balance with just these top two products.					
ADD IN Photo-Boost 0-0-5 EMPRUV 3-0-6 Solu-Amino 6-0-3	1.0 gal./acre 0.5 gal./acre 0.5 gal./acre	To optimize Photosynthesis and Carbohydrate Production To boost immune system and trigger natural plant defenses To provide organic Nitrogen (N15) when soil temps are cold					

STS Fairway and Tee Large Area Injection Suggestions

Call your local STS Turf rep to help develop the right Tee and / or Fairway formulation(s) to optimize results and longevity. The below products are discounted in 55 and 275 gallon quantities making them cost effective for injecting:

Spring Injection - Consider STS Spring 9-4-6 at 2-4 qts./acre or Phos Pro 3-15-0 at 1-2 qts./acre or Solu-Plus at 1 qt./acre Summer Injection - Consider STS Summer 7-0-9 at 2-4 qts./acre or STS Soil Activator at 2-4 qts./acre or Pure K+ at 1.25 - 2.5 lbs./acre Fall Injection - Consider STS Fall 7-3-9 at 2-4 qts./acre or Phos Pro 3-15-0 at 1-2 qts./acre or Pure K+ at 1.25 - 2.5 lbs./acre Winter or Cool Weather Injection - Consider STS Winter 8-2-8 at 2-4 qts./acre or Pure K+ at 1.25 - 2.5 lbs./acre

ALL STS Seasonal Products include our Solu-Plus Technology, Solu-Kelp, rooting stimulators, anti-oxidants, enzymes, stress relievers, vitamins, bio-surfactant, amino acids, pre-digested humic, fulvic and carboxylic acids along with fermentation extracts

Other products to consider on Fairways and Tees include: Solu-Kelp / Dr. Fermento / Nutri-CHO / Nitro-Blend 27-0-0

Sample Formulations

Landscape and Garden Product Suggestions

With the addition of Huma Rich, Trees and Shrubs, along with our many other nutrient based and auxiliary products, no job is too small or too big!

For soil based root drench of Tree and Shrub applications apply diluted solution at *1 to 2 gallons per inch Diameter at Breast Height (DBH) factoring the age and establishment. Inject or Water in well

*Some plants are more sensitive than others with foliar applications, do small test plot prior to large scale application.

Trees and Shrubs General Maintenance

Vegetables and Flowers General Maintenance

Pre-Plant Carbon Enhancement Gardens and Flower Beds Transplant Stress Recovery Microbial Incoulation Salt Remediation Stress Recovery

Activate Plant Defenses Complete Nutrition with Phosphorus Complete Nutrition without Phosphorus Optimize Rooting

> Dormancy Break Winter Prep

Foliar Application - 1.0 oz./gallon of water *Soil / Root Drench - 2.5 oz./gallon of water (50 to 1 Dilution Ratio) Alternate Root Drench with 2.0 oz. of Dr. Fermento and 0.5 oz. Solu-Plus/gallon of water *Use 1 gallon diluted material per 1" trunk diameter on new Trees and Shrubs *Use 2 gallons diluted material per 1" trunk diameter on established Trees and Shrubs Foliar Application - Use Trees and Shrubs - 1.0 oz./gallon of water Soil / Root Drench use 2 oz./gallon of water - Spray surface around plants and lightly water in Alternate Root Drench with 2.0 oz. of Dr. Fermento and 0.5 oz. Solu-Plus/gallon of water 5% to 10% Huma Rich by Volume with Existing or Potting Soil Spread 2 to 3 lbs. Huma Rich per DBH and work it in above root zone 50 lb. bag of Huma Rich will cover 250 to 500sf - Spread evenly and work into top 3" to 6" Soil Application - 0.5 oz./gallon Cal Fresh - Dr. Fermento - Solu-Plus - water in Soil Application - 0.75 oz./gallon STS Soil Activator - Dr. Fermento - Solu-Plus - water in Soil Application - 2.0 oz./gallon Cal Fresh and 0.5 oz./gallon Solu-Plus - Deep Water Foliar Application - 0.5 oz./gallon K Phos-Phyte and Solu-Kelp - 0.25 oz./gallon EMPRUV Soil Application - 0.5 oz./gallon Cal Fresh - Dr. Fermento - Solu-Plus - water in Foliar Application - 0.5 oz./gallon K Phos-Phyte and Solu-Kelp - 0.25 oz./gallon EMPRUV Foliar Application - 0.5 oz./gallon STS Fall 7-3-9 - Photo-Boost - Solu-Amino Foliar Application - 0.5 oz./gallon STS Summer 7-0-9 - Cal Mag 82 - Photo-Boost Foliar Application - 0.5 oz./gallon Phos Pro - Photo-Boost - Solu-Amino Soil Application - 0.5 oz./gallon Cal Fresh - Dr. Fermento - Solu-Plus - water in Soil Application - 0.75 oz./gallon STS Spring 9-4-6 - Dr. Fermento - water in Soil Application - 0.5 oz./gallon Pure K+ - Winter 8-2-8 - Sili-Kick - water in

















Recommended Rates and Usage

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PRODUCT	COOL SEASON TURF FOLIAR OZ./1000SF	WARM SEASON TURF FOLIAR OZ./1000SF	SOIL APP OZ./1000SF	POST AERIFICATION OZ./1000SF	PRE FLUSH OZ./1000SF	POST FLUSH / RAIN OZ./1000SF	SEED / SOD OZ./1000SF	INJECTION RATE / ACRE
8% IRON CHELATE	1.0 - 3.0	1.0 - 3.0	2.0 - 3.0	1.5 - 2.0		1.5 - 2.0		1.0 - 2.0 qts.
CAL FRESH	2.0 - 4.0	2.0 - 4.0	3.0 - 6.0	3.0 - 6.0	3.0 - 9.0	3.0 - 6.0	1.0 - 2.0	1.0 - 4.0 qts.
CAL MAG 82	2.5 - 4.0	3.0 - 4.0	3.0 - 5.0					1.0 - 3.0 qts.
COOL N	3.0 - 6.0	3.0 - 6.0	4.0 - 8.0			3.0 - 6.0		
DR FERMENTO			1.5 - 3.0	2.0 - 4.0		2.0 - 4.0	1.5 - 3.0	1.0 - 2.0 qts.
EMPRUV	0.75 - 2.0	0.75 - 2.0						1.0 - 2.0 qts.
FALL	3.0 - 6.0	4.0 - 8.0	4.0 - 8.0				2.0 - 8.0	2.0 - 4.0 qts.
FOLIAR ACTIVATOR	3.0 - 6.0	3.0 - 6.0						1.0 - 2.0 qts.
FOLIAR K27	3.0 - 4.0	3.0 - 5.0						
GREEN+ER	0.5 - 3.0	0.5 - 3.0						
GREENS GREEN	4.0 - 6.0	6.0 - 8.0	4.0 - 8.0					
HUMA RICH				10 - 25 lbs./1000			50 - 100 lbs./1000	
K PHOSPHYTE	6.0 - 7.0	6.0 - 8.0						
KRUSTY			2.0 - 8.0		4.0 - 6.0			0.5 - 2.0 qts.
MICRO MAX	1.0 - 3.0	1.0 - 3.0	2.0 - 3.0	1.5 - 2.0		1.5 - 2.0		1.0 - 2.0 qts.
MOVE N HOLD			3.0 - 6.0	3.0 - 6.0		3.0 - 6.0	3.0 - 6.0	0.5 - 2.0 qts.
NITRO-BLEND	2.0 - 6.0	2.0 - 6.0	3.0 - 6.0				2.0 - 6.0	1.0 - 3.0 qts.
NUTRI-CHO	1.5 - 3.0	1.5 - 3.0	2.0 - 4.0					1.0 - 2.0 qts.
OXYGRASS PRO	0.05 - 0.2	0.05 - 0.2	0.05 - 0.2	0.05 - 0.2		0.05 - 0.2	0.05 - 0.2	
PHOS PRO	2.0 - 4.0	2.0 - 4.0	2.0 - 6.0				2.0 - 6.0	1.0 - 2.0 qts.
PHOTO-BOOST	3.0 - 4.5	3.0 - 4.5						
PURE K ⁺ 0-0-27	1.0 - 3.0	2.0 - 3.0	2.0 - 4.0	2.0 - 4.0		2.0 - 4.0		1.25 - 2.5 lbs.
RESPONSE 2-0-6	1.0 - 3.0	1.0 - 3.0	2.0 - 4.0			2.0 - 4.0		1.0 - 2.0 lbs.
SILI-KICK	0.5 - 1.5	0.5 - 1.5	1.0 - 2.0			1.0 - 2.0		1.0 - 2.0 qts.
SIX MAG	0.75 - 1.5	0.75 - 1.5	1.0 - 2.0	1.0 - 2.0		1.0 - 2.0		1.0 - 1.5 qts.
SOIL ACTIVATOR			3.0 - 6.0	3.0 - 6.0		3.0 - 6.0	4.0 - 8.0	2.0 - 4.0 qts.
SOLU-AMINO	1.5 - 6.0	1.5 - 6.0	1.5 - 3.0	1.5 - 3.0		1.5 - 3.0		
SOLU-KELP	3.0 - 4.0	3.0 - 4.0	3.0 - 6.0	2.0 - 3.0		2.0 - 3.0	2.0 - 4.0	2.0 - 3.0 qts.
SOLU-OXY			2.0 - 3.0	3.0 - 6.0		2.0 - 3.0		1.0 - 2.0 qts.
SOLU-PLUS	1.0 - 3.0	1.0 - 3.0	2.0 - 4.0	0.5 - 1.0		2.0 - 4.0	0.5 - 1.0	1.0 - 2.0 qts.
SPRING	3.0 - 6.0	4.0 - 8.0	4.0 - 8.0				2.0 - 8.0	2.0 - 4.0 qts.
SUMMER	3.0 - 6.0	4.0 - 8.0	4.0 - 8.0				2.0 - 8.0	2.0 - 4.0 qts.
TREES & SHRUBS	SEE LABEL	SEE LABEL	SEE LABEL					SEE LABEL
WINTER	3.0 - 4.0	2.0 - 6.0	4.0 - 8.0					2.0 - 4.0 qts.





Sustainable Turf Science, Inc. was started in 2010 with the mission to provide turf managers with advanced technology and improved efficiency of fertilizer applications.

In 2011, Brad Snavely and Dr. Awada began working together and formulating turf specific products, allowing Dr. Awada's advanced technology, along with specifically designed products for grass, to be available to the turf industry through their state-of-the-art production facility, keeping Turf and landscape Managers on a path of sustainability!



BRAD SNAVELY

With almost 40 years of combined experience in the agricultural and sports turf markets, Brad Snavely has gained the confidence and trust of top 100 golf courses and world renowned sports fields as a consultant.

Brad Snavely is known for his unsurpassed level of customer service, knowledge of soil and water data, and producing comprehensive application protocols that factor in historical analyses, soil structure issues, water quality, upcoming tournaments, cultural practices, and more.

DR. SALAM AWADA

Dr. Salam Awada brings over thirty years of experience in the fields of plant nutrition and biological fermentation to the turf grass industry. His research and development team uses bioreactors to grow beneficial yeast, and fungi, to harvest their bacteria, metabolites, extracts, and byproducts.

Dr. Awada holds worldwide patents on the use of biological surfactants to solubilize, complex and chelate minerals and nutrients essential for the growth and propagation of biology and plants.

Sustainable Turf Science, Inc.

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