

Complete Solutions for the Perfect Turf

- N-P-K Fertilisers
- Companion Microbial Inoculant
- Essential Plus Soil Conditioner & Root Stimulant

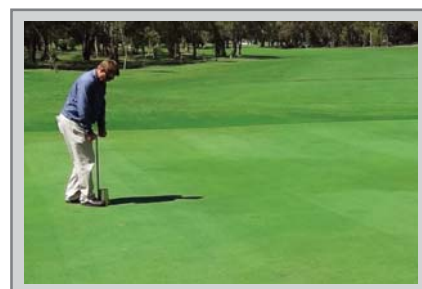
- Iron Products
- Micronutrients

N-P-K THE SMART NITROGEN APPROACH TO TURFGRASS NUTRITION

Green-Speed SI (0-.86-4.2)	7% Soluble Potassium Sicate with Phosphite and 2% Humic Acid
Hydro-Max	All Natural Wetting Agent plus Humic Acid
Nitro-30® SRN 30-0-0	With 85% Slow Release Nitrogen – The Smart Nitrogen™
Nitro+K 22-0-13.4	With 82% Nitro-30® SRN
0-0-21 Liquid Potassium	Quickly corrects Potassium deficiency
"TKO" Phosphite 0-12.5-21.8	100% Phosphite

- Immediately available Potassium
- Improves stress tolerance
- Requires no mixing or agitation
- True Clear Solution
- No Nitrates / No Chlorides
- Does not leach or volatise

When choosing your N-P-K liquid fertiliser, take the "Smart" nitrogen approach! Fernland Agencies N-P-K FERTILISERS contain an exclusive SRN (slow release nitrogen) that is more efficient, gives longer lasting results and therefore is more economical than quick release nitrogen sources. Fernland Agencies N-P-K products provide extended feeding for up to 12 weeks, resist leaching, have a low salt index and are therefore non burning. Since they are 100% soluble with no need for any special agitation and can be tank mixed (compatible) with a broad range of pesticides saving time and labor with a single spray application. There is no mower pick up! The Smart N is also a sticker/spreader which enhances the adhesion of fungicides. Stays on the leaf! You also get the proper balance of nitrogen release providing fast green up without a flush of growth and continued release. Ideal in drought conditions!



PRODUCT SPOTLIGHT

"TKO" PHOSPHITE 0-12.5-21.8

"TKO" Phosphite is a concentrated P/K solution that's highly beneficial to all types of golf and lawn turf. Phosphite itself is a form of phosphorus (P), which is an essential element in plant photosynthesis, root growth, energy storage and protein formation. Unlike other forms of phosphorus which can become bound in soil, the chemical make-up of phosphite makes it highly available to plants.

When applied as a foliar spray, "TKO" Phosphite quickly enters turf through the leaves, crowns and roots. It moves through both xylem and phloem, showing its worth by quickly increasing root mass and improving turf vigor. Applications of "TKO" Phosphite have been shown to significantly reduce summer stress on greens, tees, and on other turf areas.



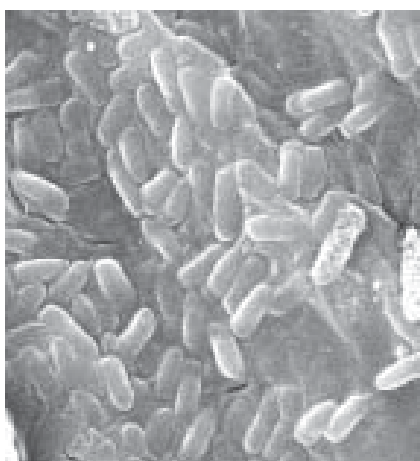
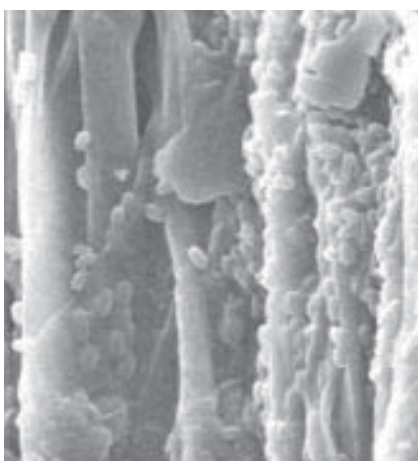
COMPANION[®]

MICROBIAL INOCULANT

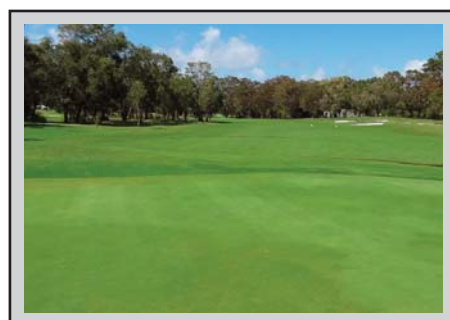


- Activates the Plant's Defense / Immune System (Induced Systemic Resistance [ISR])
- A Rhizosphere Bacterium
- Improves Nutrient Uptake

Companion is a broad spectrum microbial inoculant designed to improve overall plant growth and increase root mass, which in turn promotes essential nutrient uptake. Companion contains beneficial soil bacteria spores (*Bacillus subtilis* GB03). *Bacillus subtilis* is a naturally occurring gram-positive rhizosphere bacteria that allows spores to quickly germinate and colonise on the plant roots. The GB03 provide enzymes and auxin-like metabolites, which improve rooting, growth, and plant vigor. Additionally, Companion's liquid solution contains high percentages of natural carbon compounds which neutralise chemical salts.



Single root hair showing the symbiotic relationship with *Bacillus*



COMPANION'S INGREDIENTS

BENEFICIAL BACTERIA:

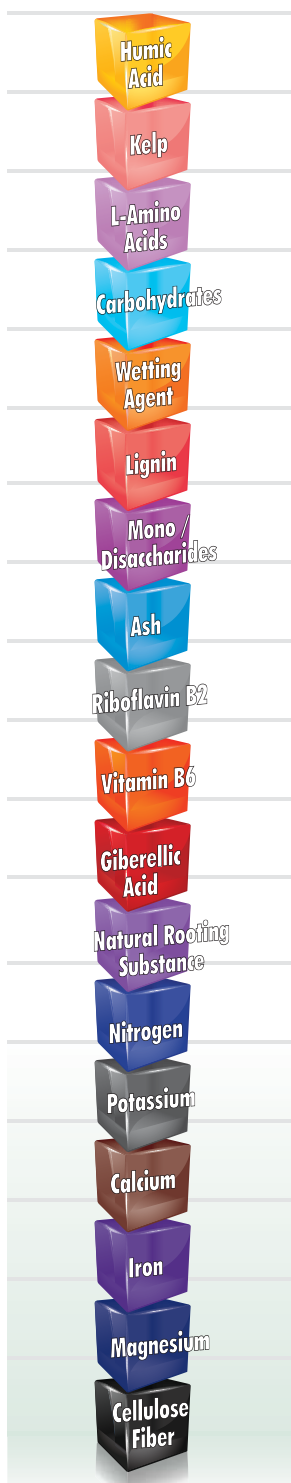
Bacillus subtilis GB03
(not less than 1.45×10^7 CFU* per ml)

* (CFU) Colony Forming Units

Sucrose, monosaccharides, Condensed Fermented Plant Extracts, Dextrin, Natural Organic Sequestrant, Natural Wetting Agent

ESSENTIAL[®] PLUS

Essential Plus contains more ingredients under its guaranteed analysis than any other competitive product.



ESSENTIAL PLUS[®]

- Rejuvenates Soil Structure
- Food Source for Microbial Activity
- Stimulates Root & Plant Growth
- Contains 21 Natural L-Amino Acids
- Soil Conditioner
- Root Stimulator
- Reduces Salts
- Improves Cation Exchange
- Eliminates Transplant Shock
- Success after Success

Increase organic matter content in soils, feeds beneficial soil micro-organisms, increases CEC, improves seed germination and root growth, improves plant physiology with sugars and amino acids that are not available in N-P-K fertilisers.

ESSENTIAL[®] PLUS

GUARANTEED ANALYSIS:

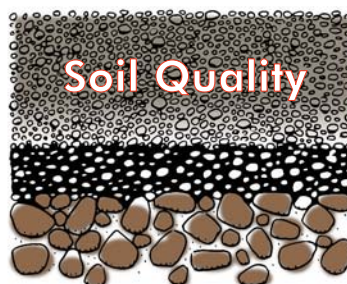
Total Nitrogen (N)	1%
Soluble Potash (K2O)	1%
Iron (Fe)	0.29%
Humic Acid (Lionardite)	7%
Cellulose Fibre	10%
Kelp Extract	0.1%
Carbohydrates	2%
Natural Wetting Agent	0.0025%
Lignin	1.2%
Mono / Disaccharide	3%
Ash Content	2%
Riboflavin (B2)	13.7mg/lb
Vitamin (B6)	0.314%
Gibberellic Acid	0.001%
Natural Rooting Substance	0.01%
Total L-Amino Acid	2.75%
0.53% Glycine	0.08% L-Phenylalanine
0.39% L-Glutamic Acid	0.07% L-Isoleucine
0.35% L-Aspartic Acid	0.04% L-Histidine
0.26% L-Alanine	0.02% L-Methionine
0.19% L-Proline	0.01% L-Tyrosine
0.17% L-Leucine	Trace% L-Carnosine
0.16% L-Lysine	Trace% L-Citrulline
0.16% L-Serine	Trace% L-Cystine
0.12% L-Arginine	Trace% L-Beta-Alanine
0.10% L-Threonine	
0.10% L-Valine	Trace% L-Taurine



Plants Physiology



Root Development



Soil Quality



IRON PRODUCTS TO MEET ANY CONDITION

X-Xtra Iron 6-0-0	High Iron 9% – Low Nitrogen 6%
-------------------	--------------------------------

- Fast Green Up, No Surge Growth
- Compatible with PGR's
- Corrects Iron Chlorosis overnight
- Compatible with technical materials
- Non staining
- For foliar and root applications
- 100% Chelated Iron



Bring your turf to its full potential with X-Xtra Iron 6-0-0

Dull green and brown grass is many times caused by a lack of iron in the soil. X-Xtra Iron provides a fast acting, chelated formula, to bring iron levels back up and bring out the rich green color in your turf. It is safe to use, non-burning and can be used as a part of a regular maintenance program.

MICRONUTRIENTS 100% CHELATED TO CORRECT ANY DEFICIENCY

Cal-Tec™ 9%	Calcium Glucoheptonate Chelate 6-0-0
Cal Mag Max 7-0-2.5	With 4% Chelated Calcium and 2% Chelated Magnesium
Magnesium Chelate 3%	Glucoheptonate Organic Chelate
Manganese Chelate 5%	Glucoheptonate Chelate with 2% Sulfur
Micrel Total 5-0-0	With eight Chelated Micronutrients

- Aids in utilisation of nutrients
- Greater traffic tolerance
- Corrects Ca to Mg ratio in tissues
- Develops strong cell walls
- For stress tolerance and turgidity
- Foliar spray to correct Chlorosis

It's a balancing act to maintain the proper ratio of micronutrients in your turf grass.

Our MICRO-NUTRIENTS are in a form that remains soluble in the soil for immediate uptake by the plant at critical stages of growth. They are a necessary part of the chlorophyll molecule and are needed for sugar formation (Mg). They play an important role in enzyme formation in plant cells (Mn), and provide quick color response. Added benefits are no mower pick up, low salt index and economical and practical micronutrient sources.

PRODUCT SPOTLIGHT

Cal Mag Max 7-0-2.5

Calcium and Magnesium are very important secondary nutrients and part of the chlorophyll molecule which is necessary for sugar formation. Inadequate amounts of Magnesium will first appear as a general loss of green color at bottoms of older leaves (interveinal chlorosis). Continued deficiency will also affect younger leaves, followed by formation of lesions. Cal Mag Max 7-0-2.5 corrects these deficiencies with the same Ca to Mg ratio as found in cell tissues. This helps develop strong cell walls and greatly improve traffic tolerance. It can be used on tees, greens and all types of warm and cool season grasses throughout the growing season.



FERNLAND AGENCIES

31-35 Paulger Flat Road, Yandina Qld 4561 P: 1800 672 794 E: sales@fernland.com.au