



Scotts Fertilizers

With a proven track record and nearly 40 years experience in fertilizers, Scotts has become the name more growers trust. Scotts introduced the very first controlled release fertilizer on the market, Osmocote®, and we never stopped perfecting their products. Their research and development team has produced the most flexible controlled release fertilizer program available. With the most advanced products in the industry, Scotts is sure to have the exact controlled release fertilizer you need.

- 1st Generation – Controlled Release Fertilizer
 - Coated N-P-K; homogeneous
 - Pre-defined longevity of N-P-K
 - For optimal results use with Micromax® Micronutrients
- Designed for incorporation in general nursery and greenhouse production. Use in combination with Micromax Micronutrients for optimal results. Osmocote® Classic products provide proven, reliable performance.

Fertilizers

14-14-14
Excellent for bedding plants and other flowering or fruiting varieties.
19-6-12 (3-4 months)
Short-term foliage plants thrive on this formulation, which contains no urea to protect greenhouse crops.
13-13-13
Ideal for perennials, slower-growing flowering plants or hanging baskets.
18-6-12 and 19-6-12
The industry standard, these ratios are ideal for greenhouse and container nursery stock, propagation or fall feeding.

Longevity at 70°	Hi-Start	Standard	Lo-Start
3-4 Month		14-14-14 / 19-6-12	
8-9 Month	19-6-12	13-13-13 / 19-6-12	18-6-12
12-14 Month	19-6-12	19-6-12	19-6-12
14-16 Month		19-6-12	18-6-12

Growing media/soil temperature is the primary factor that affects product release. Actual product longevity depends on cultural practices such as frequency and quantity, environmental factors such as temperature and rainfall, and the rate of application. Refer to the label for complete use information.

No other fertilizer can give you the unique technology behind Osmocote® Classic.

Osmocote® fertilizer is composed of resin-encapsulated N-P-K granules, which provide nutrient release over various climatic zones. Water vapor penetrates the permeable shell and dissolves the nutrients, which are released evenly through the coating at a rate determined by formulation and soil temperature. The unique flexibility of Osmocote fertilizer technology allows for combinations of various release curves to be blended together providing the greatest control in fertilizer release.

Osmocote® Classic Guaranteed Analysis				
	13-13-13	14-14-14	18-6-12	19-6-12
Total Nitrogen (N)	13%	14%	18%	19%
Ammoniacal Nitrogen	7.50%	8.20%	10%	10%
Nitrate Nitrogen	5.50%	5.80%	8%	9%
Available Phosphate (P2O5)	13%	14%	6%	6%
Soluble Potash (K2O)	13%	14%	12%	12%

Derived from: ammonium nitrate, ammonium phosphate, calcium phosphate and potassium sulfate. Information regarding the contents and levels of metals in this product is available on the internet at <http://www.regulatory-info-sc.com>.

Incorporation Rates for 3-4 Month	14-14-14 3 - 4 Month			19-5-12 3 - 4 Month		
	Low (Sensitive Plants)	Medium (Nursery Stock and Foliage)	High (Nursery Stock)	Low (Sensitive Plants)	Medium (Nursery Stock and Foliage)	High (Nursery Stock)
Volume or area of mix incorporating in soil for putting up or shifting						
Per cubic yard (lb)	3.5	8.5	13	3	6.5	9.5
Per cubic meter (kg)	2.1	5	7.7	1.8	3.9	5.6
Landscape Rates (lbs per 1,000 sq ft)	7	14	21.5	5	10.5	16

Osmocote PLUS

The Only Patterned Release Fertilizer

- 3rd Generation – Patterned Release Fertilizer
- Scotts Patterned Nutrient Release Technology™ delivers:
 - Pre-defined release patterns
 - Pre-defined longevity
- Coated N-P-K + magnesium and micronutrients; homogeneous
- Full season N-P-K, magnesium and micronutrients

Designed for general nursery and greenhouse production, special circumstances such as sensitive or high value crops, and dibbling equipment. Can be incorporated or surface applied. Get the best return on your fertilizer investment, safely, by matching the nutrient release patterns with plant needs for optimal quality.

Fertilizers

Guaranteed Analysis for Osmocote Plus 15-9-12

Total Nitrogen	15.0%	Boron (B)	0.02%
Ammoniacal Nitrogen	7.0%	Copper (Cu)	0.05%
Nitrate Nitrogen	8.0%	Iron (Fe)	0.45%
Available Phosphate (P₂O₅)	9.0%	Chelated Iron (Fe)	0.23%
Soluble Potash (K₂O)	12.0%	Manganese (Mn)	0.06%
Magnesium (Mg)	1.0%	Molybdenum (Mo)	0.02%
Sulphur (S)	2.3%	Zinc (Zn)	0.05%

Agriform

Agriform 20-10-5 Planting Tablets

Two year planting tablets for root zone feeding of trees, shrubs and ground covers.

How Agriform Planting Tablets Work:

These compact, easy-to-use fertilizer tablets eliminate the need for measuring small quantities of dry materials and provide a safe, scientifically complete plant food which lasts up to two years. Planting Tablets fill the continuing need of all plants for a full range of major nutrients.

During the first year of establishment, the demand for plant food is not great in terms of pounds of nutrients but continuity of availability is critical for the development of healthy roots and vigorous top growth. Roots completely surround Agriform Planting Tablets to pick up the nutrients that are gradually released by the action of soil bacteria. The absorbed nutrients are transported throughout the plant by the sap stream.

Note: these tablets do not dissolve; consequently, tablets may retain their shape even after a year or two in the soil, while releasing nutrients at the desired rate.

Urea-formaldehyde is the total nitrogen source, supplying a reservoir of prolonged-release, nonleaching nitrogen to the plant roots. Adequate quantities of available phosphorus, potassium, and iron complete the formula and provide an ample reserve of all major elements. Soil bacteria acting on the surface of the tablets gradually convert the slow-release nutrients to a form that can be absorbed by the roots. The rate of conversion varies with the soil temperature, just as a plant's requirement for nitrogen varies with the season of the year.

Special Advantages

- Safe easy to handle, convenient.
- Agriform Planting Tablets feed for up to two years in warm climates. This reduces labor and materials for re-applications.
 - The simplicity of premeasured tablets insures uniform and adequate fertilization.
- Supervisory time is reduced. Count and placement of tablets can easily be verified by inspection after installation.
- Root zone placement eliminates feeding surface rooted weeds and grass. No surface residue to wash away.
- Leach resistant properties of tablets protect underground water from pollution.

Specifications

Description: Planting tablets shall be tightly compressed, longlasting and slow-release. Weights of 10 and 21 grams with an analysis of 20-10-5 derived from the sources listed in the guaranteed analysis.

New landscape plantings in the ground: Bareroot, B&B, container stock and ground cover liners. Position plant in the hole. Backfill halfway up the root ball. Place tablet(s) beside the root ball about 1 inch from root tips. Do not place tablet(s) in bottom of the hole. Complete backfill, tamp and water.

Interior and outdoor landscaping in containers and tubs: Punch one hole for each tablet 2 to 3 inches inboard of the container rim, and 4 to 6 inches deep. Insert tablet(s), close holes.

Established trees and shrubs in landscape: Insert 21 gram tablets in holes around dripline and between dripline and trunk. Drill or punch holes 6 to 8 inches deep.

Code	Size	Tab. / Cs.	Wt. / Cs.
AT6460	10 gram 20-10-5	1000	25 lbs.
AT6491	21 gram 20-10-5	500	25 lbs.

Agriform Application Rates				
21 Gram				10 Gram
Trade #1	Trade #3	Trade #5	Trade #7	Well Rooted Liners
1 tablet	1-2 tablets	2-3 tablets	3-5 tablets	1 to 2 Tablets



- 2nd Generation – Controlled Release Fertilizer
- Blended product – may contain coated, uncoated and/or slow release components
- Now available: blends with 100% coated, homogeneous N-P-K prills – no urea
- Added micronutrients
- Specified longevity of N-P-K

Designed for general nursery production and outdoor applications. Can be incorporated or surface applied. Osmocote® Pro controlled release fertilizer delivers dependable, safe performance for a good cost-in-use value

Guaranteed Analysis	19-5-8	21-3-7	19-5-8
Product Code	OS1316	OS1506	ALL
Total Nitrogen	19.0%	21.0%	17.0%
Ammoniacal Nitrogen	6.6%	6.0%	9.0%
Nitrate Nitrogen	5.6%	5.3%	8.3%
Urea Nitrogen	6.8%	9.7%	0.0%
Available Phosphate (P₂O₅)	5.0%	3.0%	5.0%
Soluble Potash (K₂O)	8.0%	7.0%	11.0%
Magnesium (Mg)	1.4%	1.5%	0.0%
Water Soluble Mg	0.28%	0.31%	0.0%
Sulphur (S)	7.0%	4.0%	5.0%
Combined S	4.4%	4.0%	5.0%
Free S	3.6%	0.0%	0.0%
Copper (Cu) Total	0.05%	0.0%	0.14%
Soluble Cu	0.01%	0.0%	0.14%
Iron (Fe)	0.90%	2.0%	2.3%
Soluble Fe	0.68%	2.0%	2.3%
Manganese (Mn)	0.25%	0.0%	0.35%
Water Soluble Mn	0.10%	0.0%	0.35%
Zinc (Zn) (Soluble)	0.10%	0.0%	0.14%

Introducing Osmocote Pro 17-5-11

General Purpose Outdoors & Protected Structures

- Contains no urea so can be used in covered production areas as well as outdoor nursery, foliage and landscape plants
- 2nd generation Osmocote® Pro featuring 100% coated, homogeneous N-P-K prills blended with a proven micronutrient package (equivalent to Micromax®) provides plants elements essential for high quality growth in a form they can easily utilize
- Elevated level of iron in sulfate form is easily taken up by plants and encourages good foliage color
- Choice of longevities offers the flexibility to deliver consistent, reliable nutrition for as long as plants need it
- Analysis of 17-5-11 provides good cost-in-use value

Description	Code
17-5-11 3-4 Month	OS90179
17-5-11 5-6 Month	OS90180
17-5-11 8-9 Month	OS90181
17-5-11 12-14 Month	OS90182

Fertilizers

TOPDRESS SPECIAL

17-3-6 TopDress Fertilizer Plus Minors/ST

Designed as a topdress fertilizer for use on container-grown woody ornamentals and foliage plants. Contains POLYS which provides controlled-release nitrogen and readily available phosphorus, potassium, magnesium, and micronutrients. Lasts 2 to 3 months in the South, 3 to 4 months in the Northeast, Midwest, and West Coast.

The Topdress Fertilizer Plus Minors/ST Advantage:

All the nitrogen has been coated using POLYS technology - an effective means of controlling release of nutrients • In addition to nitrogen, phosphorus, and potassium, provides important secondary - magnesium - and micronutrients - iron, manganese, zinc, and molybdenum • A highly visible product on the surface of the container • May be used in conjunction with liquid or dry fertilizer programs • Dry, dense, free-flowing, ready-to-use product of uniform particle size

NUTRIENT SOURCES:

- N:** Polymer-encapsulated sulfur-coated urea monoammonium phosphate
P: Monoammonium phosphate
K: Sulfate of potash magnesia
Mg: Magnesium Sulfate
Fe: Ferrous sulfate, ferrous oxide
Mn: Manganese oxide
Zn: Zinc oxide
Mo: Sodium molybdate

Container sizes (top-dressing on established plants)	Approx. Number containers per cubic yard	Low Sensitive Plants	Medium Nursery Stock	High Grnhouse or Nursery Stock
Trade 1 gal.	300	9 g	12 g	16 g
Full 1 gal.	200	13 g	18 g	25 g
2 gal.	140	19 g	26 g	35 g
3 gal.	80	34 g	45 g	62 g
5 gal.	50	54 g	72 g	100 g

CONTROLLED-RELEASE STATEMENTS

N: A minimum of 85% of the total nitrogen in this product is controlled-release from polymer encapsulated sulfur-coated urea.

APPLICATION RATES: Apply this product to the surface of container-grown ornamentals at potting time if a fertilizer was not incorporated into the media prior to potting, or during the growth cycle as needed. Evenly distribute the product over the surface of the container at the recommended rates outlined in the following table.

50 lbs. bag

Code: FERTMT50P

Champion®

Water Soluble Fertilizer

21-18-18 General Purpose (SMG91430) 25 lb.

Combines N-P-K, magnesium and trace elements. Combats effects of high sodium in irrigation water especially when coupled with high alkalinity. Ideal for potted plants, bedding plants and cut flowers. Maximum solubility is 3 lb. per gal.

Peters® Excel®

Water Soluble Fertilizer

Even where water quality is very unfavorable, using the patented Peters® Excel® can give you optimal results. It stabilizes the pH while supplying magnesium and/or calcium and the exclusive M-77 nutrient package developed by Scotts. Excel is easy to use, can be mixed together and reduce the need for multiple stock tanks. Peters Excel is exclusively available from Scotts.

Excel All Purpose (21-5-20) 25 lb.

Code: P14-99-1-17

Contains elevated trace elements. Maintains solubility when calcium and magnesium are added. Use on all potted bedding (including plugs) and cut flowers.

Ingredients: ammonium nitrate, potassium nitrate, urea phosphate, boric acid, copper sulfate, iron sulfate, manganese sulfate, sodium molybdate, zinc sulfate.

Excel Cal-Mag (15-5-15) 25 lb.

Code: P14-94-1-17

Maintains solubility for calcium, magnesium, phosphorus, and sulfated trace elements all in one product. Use on all potted, bedding (including plugs) and cut flowers requiring additional nitrate, calcium and magnesium.

Ingredients: calcium nitrate, potassium nitrate, urea, urea phosphate, magnesium nitrate, boric acid, copper sulfate, iron sulfate, manganese sulfate, sodium molybdate, zinc sulfate.

Scotts® Peters® Specialty Water Soluble

S.T.E.M. (Soluble Trace Element Mix) 25 lb.

Code: P14-03-3-00

An immediately available, soluble, easy to apply trace element complex. Contains sulfur, boron, copper, iron, manganese molybdenum and zinc. Apply with proper cautions.

USES: To correct a suspected trace element deficiency. In constant feeding, apply 8 oz. of S.T.E.M. for every 100 lbs. of fertilizer.

Peters Professional®

Water Soluble Fertilizer

Scotts® Peters® Professional® Peat-Lite®

When you use soilless growing media, you need just the right fertilizers. Scotts has the answer: Peters® Professional® Peat-Lite®. With elevated micronutrients and the Scotts exclusive M-77 nutrition package, Peters Professional Peat-Lite will keep your crops healthy.

Peat-Lite 15-16-17 - 25 lbs.

Code: P14-22-1-17

A popular fertilizer containing 53% nitrate nitrogen. Being a Peat-Lite blend it contains elevated trace element quantities. This formulation is one of the best 1:1:1 ratio fertilizers available to the grower.

Peat-Lite 20-10-20 - 25 lbs.

Code: P14-86-1-17

This fertilizer has the same formulation as 20-10-20 General Purpose with the main difference being Peat-Lite contains an elevated trace element package. This blend offers a high nitrate to ammonium ratio good for year round production. The acidic nature of this blend counters undesirable water alkalinity.

Scotts® Peters® Professional®

Peat Lite Plant Starter (10-30-20) 25 lb.

Code: P14-15-1-17

Designed to increase bud set, count, color and size on virtually all types of flowering material and promote root growth.

Plug & Bedding Plant Special (13-2-13) 25 lb.

Code: SMG91438

Combines a high nitrogen, low phosphorus, high potassium formulation ideal for bedding plants, plugs and potted plants.

Tropical Foliage Feed (24-8-16) 25 lb.

Code: P14-93-1-17

New mix with no blue dye. Ideal for indoor plants.

Plant Starter (8-45-15) 25 lb.

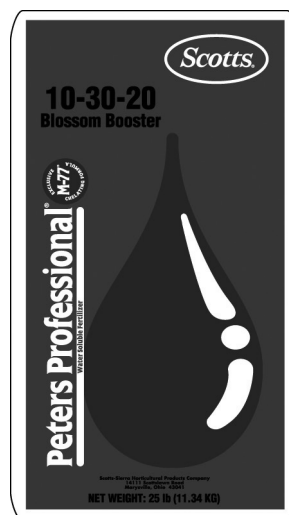
Code: P91140W

Designed primarily as a plant starter whose main use is in fertilizing young seedling transplants, newly set rooted cuttings, etc.

Poinsettia Finisher (15-20-25) 25 lb.

Code: P14-05-1-17

A new Peat Lite formulation for finishing Poinsettias.



Rocky Mountain Bio Products

Rocky Mountain Bio Products and American Clay Works introduces a new line of organic and 7-2-3 NPK fertilizer called Biosol. Used in the reclamation industry for years throughout the world, this product not only fertilizes your customers lawn and garden, and actually increases the microbiological breakdown of organic materials increasing composting and allowing nutrients from existing organic materials to be incorporated into new growth at high rates. Available in attractive retail pallet packs with 11 lb. bags. (larger sizes also available)

BIOSOL



Available Sizes:

11 Lb Retail 7-2-3	BS11P
55 Lb 7-2-3	BS55P
50 Lb OMRI Certified 6-1-3	BSM50P

What is the Benefit?

If you could sum up the most important qualities in a fertilizer for your recreational or commercial lanscape, what would they be?

- All natural & environmentally balanced
- Produces healthy plants with vibrant color and root structure
- Benefits entire landscape
- Long lasting & will not burn lawn

Cost-effective (Biosol holds 3 - 4 times it's weight in water)

Finally, here's a product that does all five. Biosol is achieving outstanding results in creating and maintaining healthy turf at golf courses, public parks, recreational and sports facilities, home and commercial lawns throughout the world.

How often do I need to apply it?

Many lawn care companies incorporate Biosol mix into their existing four or five step fertilizing programs. Biosol works very well as long as the first application is the heaviest.

With Biosol and its repeated use, as a home owner you will find that you will fertilize less often and, in some cases, you may only have to fertilize once a year. Depending upon your application rate, Biosol promotes one to two fertilizations per year rather than the traditional one to two times a month. Since you are using quality nutrients to feed your plants and turf with very little leaching, you receive benefits from your fertilizer year after year.

How does it work?

Biosol promotes the humus formation and soil fertility due to the 70% organic substance. Biosol activates and regenerates the soil with the lasting effect. Higher humus values, better rooting and vitalization are specific characteristics of a premier organic fertilizer. The beneficial bacteria, and beneficial fungi of the soil release the nutrients in accordance with the demand of the plants. The plants are perfectly nourished and there is little danger of nitrogen leaching.

This unique blend of nutrients enables Biosol to stimulate root development, allowing plants of all kinds to fully absorb essential nutrients for longevity and maximum health.

Biosol is a 100% organic, long lasting fertilizer with soil improving benefits. The balanced nutrition ratio supplies the plant with micro- and macronutrients throughout the growing season. The high organic material in Biosol improves the humus content, providing quality nutrients for the plant and the soil. By building the organic matter and humus, it helps the soil to become active and prosperous, allowing the nutrients to be available for root absorption. The soil is enriched, rooting is strengthened, the growing and vitality of the plant is increased, and the plant's resistance against disease is strengthened. Biosol is low in salt and is suitable for arid or low precipitation areas. Because of the organic fixation of the nutrients, plus nitrogen, the risk of nitrate leaching is very low, providing the ultimate use of nutrients by the crops. Biosol is a safe and ecological fertilizer because of the selected organic materials and is safe to use around children and animals.

Also Available From Rocky Mountain Bio Products:

- Biosol Myco Apply Granular - 20 Lb - BMYCO20P
- Biosol Endo-Ecto Mycorrhizae - 20 Lb - BSEEP20LB (also available in 1-19 Lb.)
- Biosol Growplex SP Humic Acid - 1 Lb. - BSGP1P
- Biosol Growplex G Naturemate Humic Acid - 25 Lb. - BSNM25P
- Biosol Seamate 68 3% FE - 1 Lb. - BSSM68121P

Ammonium Sulfate 21-0-0

Code: FERAS50P

Acid base quick source of nitrogen. Water soluble.
13 oz. of product to 100 gallons H₂O provides 200 ppm.

Size: 50 lb. bag

Calcium Nitrate 15.5-0-0

Code: FERCN50P

Water soluble basic salt of readily available nitrogen.
17 ounces. per 100 gallons H₂O provides 200 ppm.

Size: 50 lb. bag

Gypsum - Calcium Sulfate

Code: FERG50P

Neutral salt supplies calcium without raising pH. For clearing muddy ponds, use 700 lbs. per 1/2 acre of pond (6 ft. average depth).

Size: 50 lb. bag

Iron Sulphate

Code: FERIS50P

To correct iron deficiencies and acidify soil for azaleas and plants showing chlorosis. Use 1/4 lb. in 5 gallons H₂O.

Size: 50 lb. bag

Liquid Limestone

Code: FERLC2.5G

Excellent PH Adjustment Chemical. Raises soil pH and increases availability of some nutrients. Amount used best determined by label.

Size: 2.5 gallon

Limestone - Calcium Carbonate

Code: FERCC50P; FERCC40P

Raises soil pH and increases availability of some nutrients. Amount used best determined by label. Slow acting, good for grass in lawns.

Size: 40 or 50 lb. bag

Magnesium Sulphate - Epsom Salts

Code: FERMS50P

Used where magnesium sulphate is lacking in soil.
General use. 1/2 lb. per 100 sq. ft.

Size: 50 lb. bag

Phosphoric Acid 85% Liquid

Code: FERPA5G, FERPA15G

An inexpensive way of supplying phosphorous through soil injectors.
Cleans water lines of sprinkler systems of lime and other alkaline deposits.

Size: 5 gallon, 15 gallon

Potassium Chloride - 0-0-60 (Muriate of Potash)

Code: FERMP50P

Improves plant metabolism and promotes disease resistance. 4.3 ounces to 100 gallons of H₂O provides 200 ppm.

Size: 50 lb. bag

Potassium Nitrate - 13-0-44 (Nitrate of Potash)

Code: FERPN50P

One of the principal forms of potash and nitrogen. Water soluble.
Use 1/2 lb. per 30 gallons H₂O.

Size: 50 lb. bag

Sprint 330

Code: BUS5LB

Unlike non chelated or weakly chelated irons, Sprint 330 is a strong chelate that maintains and protects iron availability in a wide variety of problem soils.

Size: 5 lb.

Sprint 138

Code: BUS5LB138

Unlike non chelated or weakly chelated irons, Sprint 138 is a strong chelate for correction of iron deficiency in alkaline and calcareous soils.

Size: 5 lb.

Triple Super Phosphate - 0-46-0

Code: FERS50P

High source of phosphorous. Must be well mixed into the growing medium.

Size: 50 lb. bag

Growth Products

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

Guaranteed Analysis:

Total Nitrogen (N) 6%

6% Urea Nitrogen

Sulfur (S)

4%

4% Combined Sulfur (S)

Iron (Fe)

9%

9% Chelated Iron (Fe)

Derived From: Technical Grade Low Biuret Urea, Ferrous Sulfate

Chelating Agent: Citric Acid

Weight per gallon 11.24 lbs.

Freezing temperature 32 F

Product Description:

X-Xtra Iron 9% is a crystal clear solution. It is the highest percentage of 100% chelated iron in the industry. X-Xtra Iron 9% is ideal for both foliar and root applications where high iron is needed. The low nitrogen to iron ratio is preferable to avoid excess flush growth. The unique citric-acid chelate is quickly absorbed through leaf tissue, correcting deficiencies and producing a healthy green color.

Cal Mag Max - 7-0-3

Guaranteed Analysis:

Total Nitrogen (N) 7%

7% Nitrate Nitrogen

Soluable Potash (K₂O) 3%

Calcium (Ca) 4%

4% Chelated Calcium (Ca)

Magnesium (Mg) 2%

Product Description:

Cal Mag Max is Growth Products' fertilizer designed specifically to satisfy the special needs of plugs and other plants grown in soilless media. This product breaks the barriers between fertilizers and micro-nutrients, giving you the best of both. Cal Mag Max contains the perfect 2 to 1 ratio of calcium to magnesium. The calcium and magnesium are 100% chelated with a special sugar-acid chelate.

Calcium Chelate 8% - 6-0-0

Guaranteed Analysis:

Total Nitrogen (N) 6%

3.2% Urea Nitrogen

2.8% Nitrate Nitrogen

Calcium (Ca) 8%

8% Chelated Calcium (Ca)

Derived From: Technical Grade Low Biuret Urea, Calcium Nitrate.

Chelating Agent: Citric Acid

Weight per gallon 10.21 lbs.

Freezing temperature 32 F

Product Description:

Calcium Chelate is the lifeline for premium plant health. Behind nitrogen and potassium, calcium represents the next greatest content of a plants tissue. Calcium Chelate may be used as completely soluble alternative to gypsum and limestone. It may also be used instead of lime to raise the pH level. Calcium Chelate is completely soluble and chelated, which means there is no lag time for the product to break down and become available to the plant.

Essential Plus

Natural Rooting Hormone & Biostimulant

Guaranteed Analysis:

Based On Active Ingredients:

Humic Acid	7%
Cellulose Fiber	10%
Natural Rooting Hormone	0.1%
Kelp Extract	0.1%
Carbohydrates	2%
Natural Wetting Agent	0.0025%
Lignin	1.2%
Mono / Disaccharides	3%
Ash Content	2%
Total Amino Acid	2.75%
Riboflavin (B2)	12.17 mg/lb
Vitamin (B6)	0.314%

0.08% Phenylalnin	Trace% Cystine	0.19% Proline
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0.07% Isoleucine	Trace% Beta-Alanine	0.17% Leucine
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0.04% Histidine	Trace% Taurine	0.16% Lysine
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0.02% Methionine	0.53% Glycine	0.16% Serine
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0.01% Tyrosine	0.39% Glutamic Acid	0.12% Arginine
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Trace% Carnosine	0.35% Aspartic Acid	0.10% Threonine
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Trace% Citrulline	0.26% Alanine	0.10% Valine
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Derived From: Humic Acid (Potassium Humate), Plant Extracts,

Simple and Complex Sugars, North Atlantic Kelp Extract

(Ascophyllum nodosum), Hydrolyzed Organic Proteins, Natural

Wetting Agent and Carbohydrates

Weight per gallon 8.74 lbs.

Product Description:

Essential Plus provides a safe alternative to the use of chemical hormones like IBA and NAA for the propagation of cuttings. Essential Plus is a true organic solution containing several unique ingredients with auxin-like activities known to stimulate callus formation and rooting on softwood and hardwood cuttings. Essential Plus contains humic acid derived from Leonardite, kelp extract, and a proprietary plant extract, which promote rooting. Side by side trials with IBA have proven that Essential Plus produces faster rooting and greater root mass than IBA.

Essential Plus is an easy to use and safe liquid formulation that can be utilized as a dip prior to planting or as a time saving drench. It is pasteurized and free of pathogens. It can be applied through a sprayer, drip irrigation system, or via hand watering, saving many hours of production labor. It contains a safe, non-phototoxic wetting agent derived from the yucca plant, which assures quick penetration into soils that are often to difficult to wet. It is manufactured from only natural organic ingredients, and is labeled by the NOFA as organic.

As an added benefit, Essential Plus promotes other aspects of plant physiology, including photosynthesis, hormonal activity, respiration and ion uptake during the plant's growth cycle. Essential plus contains two ingredients that speed up seed germination. It quickly softens the seed coat, allowing water penetration and faster, more uniform germination even on tough seed coats.

Triple Ten (10-10-10)

Total Nitrogen (N)	10%
5.5% Urea Nitrogen	
0.5% Ammoniacal Nitrogen	
4.0% Slowly Available Water Soluble Nitrogen*	
Available Phosphate (P2 O5)	10%
Soluble Potash (K2O)	10%
Boron (B)	0.02%
Copper (Cu)	0.05%
0.05% Chelated Copper (Cu)	
Iron (Fe)	0.1%
0.1% Chelated Iron (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn)	

Product Description:

Triple Ten is a concentrated crystal-clear solution containing an equal ratio of N, P, and K, as well as slow release nitrogen. This equal ratio is a staple for green-house and nursery crops. The solution contains 4% slow release nitrogen from our exclusive methylene urea. Methylene urea is known to be a very consistent and reliable nitrogen source that remains present and available to your plants for a longer period of time. Methylene urea is not easily broken down, and its nitrogen will only be released by a combination of factors (heat, humidity, and microbial activity). Timings between fertilizations can be extended. The slow release nitrogen is 'tackified' and is less likely to leach or volatilize. The phosphorus and potassium are completely soluble and therefore immediately available for plant uptake. The methylene urea portion will not break down into ammonia as it becomes available for the plant.

pH Booster 0-0-25 - Liquid Potassium Solution

Guaranteed Analysis:

Soluble Potash (K ₂ O)	25%
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Derived From: Potassium Carbonate

Product Description:

pH Booster is a crystal clear concentrate solution containing a very safe and reliable source of potassium from potassium carbonate. Each gallon of pH booster contains 2.9 lbs. of potassium. It does not contain any chlorides and has the lowest salt index of any potassium source. Potassium deficiencies can be quickly corrected for both greenhouse and nursery crops. It is extremely efficient as a foliar feed to correct potassium deficiencies. Because of 0-0-25's low salt index, the volume of irrigation water can be reduced during the application to avoid over saturation of the soil. For newly planted plants, 0-0-25 can be applied as soon as the seeds have emerged.

As a pH booster, 0-0-25 will adjust both water pH and soil. It is important to check the pH of any mix prior to use. Each soil mix will have a different buffering capacity (resistance to change pH). For example, bark is more resistant than other soil mixes. Be sure to check the pH of your mix after each application. pH Booster can be mixed with lime or flowable lime products to make their slurry more flowable and increase the performance of those products.

It can be applied through overhead irrigation as a foliar spray, or drenched onto the roots. pH Booster crystal clear solution does not settle out as a concentrate or when diluted for use, and therefore provides the precise analysis of nutrients throughout its entire use. A major advantage of pH Booster is that it can be directly siphoned from the original container with a high ratio proportioner.

pH Booster is alkaline, with a pH of 11. As a result, it will raise the pH of your stock tank and will raise the pH of your soils.

Micrel Total (5-0-0) - With Nine Chelated Micronutrients

Guaranteed Analysis:

Nitrogen (N)	5%
5% Urea Nitrogen	
Magnesium (Mg)	0.5%
0.5% Water Soluable Magnesium (Mg)	
Sulfur (S)	4%
4% Combined Sulphur	
Boron (B)	0.02%
Copper (Cu)	0.5%
0.5% Chelated Copper (Cu)	
Iron (Fe)	6%
6% Chelated Iron (Fe)	
Manganese (Mn)	0.5%
0.5% Water Soluable Manganese	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.5%
0.5% Chelated Zinc (Zn)	
Weight per gallon	11.65 lbs.

Product Description:

Micrel Total is a fully chelated 100% micronutrient package. Micrel Total has a horticulturally correct ratio of magnesium, sulfur, boron, copper, iron, manganese, molybdenum and zinc. The chelation process assures you of completely soluble and available micros that the plant can immediately absorb. Micrel Total can be used to correct deficiencies in all types of greenhouse and nursery crops. It is an ideal product to use when it is not possible to run soil and tissue tests to determine the exact deficiency. Micrel Total is also a great additive to supplement fertilizers lacking micronutrients. Micrel Total can be foliar applied for immediate treatment of chlorotic conditions and is more effective than non-chelated products.

Magnesium Chelate 3% - Organic Sugar-Chelate

Guaranteed Analysis:

Magnesium (Mg)	3%
3% Chelated Magnesium	

Product Description:

Magnesium Chelate 3% is a chelated solution ideal for correcting magnesium deficiencies. This organic sugar-acid chelate is completely soluble and immediately available for the plant to utilize. There is no need to wait for the product to break down and become available. Granular products are highly insoluble and may never become available. Magnesium Chelate 3% contains no excess sulfur which is generally over-applied though granular micronutrient products.

pH Reducer - Citric Acid Solution

Guaranteed Analysis:

Contains non-plant food ingredients	
Citric Acid	50%
Wetting Agent	0.0025%
pH	1.5
Weight per gallon	8.36 lbs.

Product Description:

This natural pH Reducer is a safe alternative to phosphoric and sulfuric acids. Use pH Reducer to lower the pH of the soilless media and water, or as a buffer in the mixing tank. pH Reducer has the extra benefit of chelating micronutrients that may be unavailable in the soil. pH Reducer contains a natural wetting agent to help the citric acid penetrate the soil quickly.