

## UNDERSTANDING THE FERTILIZER BAG

There are two basic types of fertilizer: slow release fertilizer and soluble fertilizer. Slow release fertilizer is applied to the surface of the substrate, and as the fertilizer absorbs moisture, nutrients are released into the substrate. Substrate analysis should be conducted before use; low rates should be applied to salt-sensitive plants, and higher rates should be used for heavy feeders and salt tolerant plants. Soluble fertilizer is applied in liquid form via a fertilizer injector. Irrigation water should be tested prior to developing a fertilizer schedule; generally, 50 ppm to 300 ppm N should be applied to plants through a continuous feeding program. Soluble fertilizers are used on many crops, including bedding plants, containerized woody plants, cut flowers, potted chrysanthemum, potted lilies, potted tropical foliage, potted geraniums, potted poinsettias, and plugs of all types.

### EXAMPLES OF SLOW RELEASE FERTILIZER

- Osmocote Plus 15-9-12
  - 3 to 4 months
- Osmocote Exact 16-11-11
  - 3 to 4 months
- Nutricote 13-13-13
  - 100 days

- Multicote 14-14-16
  - 3 to 4 months

### EXAMPLE OF SOLUBLE FERTILIZER

- Peter's Soluble Fertilizer
  - 20-10-20
  - Applied via fertilizer injector

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### OSMOCOTE PLUS

- 15-9-12 + Minor elements
- Product of the Scott's Company
- Works on principle of osmosis
- 3-4 month formulation

### OSMOCOTE PLUS ANALYSIS

- 15% Nitrogen
  - 7.0% Ammonium
  - 8.0% Nitrate
- 9% Phosphate
- 12% Soluble Potash
- Micronutrients:
  - 2.3% Sulfur
  - 1.0% Magnesium
  - 0.02% Boron
  - 0.05% Copper
  - 0.45% Soluble iron, including 0.23% chelated iron

- 0.06% Manganese
- 0.02% Molybdenum
- 0.05% Zinc
- 0.017% Soluble Zinc
- 0.1% Chlorine

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### **OSMOCOTE EXACT**

- 16-11-11 + Minor elements
- Product of Scott's
- Works on the principle of osmosis
- 3–4 month formulation

### **OSMOCOTE EXACT ANALYSIS**

- 16% Nitrogen
  - 8% Ammonium
  - 8% Nitrate
- 11% Phosphate
- 11% Soluble Potash
- Micronutrients:
  - 2.3% Sulfur
  - 1.8% Water soluble magnesium
  - 0.02% Boron
  - 0.05% Copper
  - 0.45% Iron, including 0.09% chelated iron and 0.05% water soluble iron
  - 0.06% Manganese
  - 0.02% Molybdenum

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### **NUTRICOTE**

- 13-13-13 + Minors
- Produced by Agrivert, Inc.
- 100-day formulation

### **NUTRICOTE ANALYSIS**

- 13% Nitrogen
  - 6.5% Ammonium
  - 6.5% Nitrate
- 13% Available Phosphate
- 13% Soluble Potash
- Micronutrients:
  - 1.2% Water soluble magnesium

- 0.02% Boron
- 0.05% Copper
- 0.02% Iron
- 0.05% Water soluble manganese
- 0.02% Molybdenum
- 0.0015% Zinc
- 1% Chlorine

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### **MULTICOTE**

- 14-14-16 + Minor elements
- Product of Vicksburg Chemical
- Distributed by Tri-Pro Inc.

### **MULTICOTE ANALYSIS**

- 14% Nitrogen
  - 6.6% Ammonium
  - 7.4% Nitrate
- 14% Phosphate
- 16% Soluble Potash
- Micronutrients:
  - 1.2% Sulfur
  - 0.55% Magnesium
  - 0.23% Iron, including 0.13% water soluble iron and 0.10% chelated iron
  - 0.05% Manganese
  - 0.02% Molybdenum
  - 1% Chlorine

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### **PETER'S SOLUBLE FERTILIZER**

- 20-10-20 Peat-Lite special
- Product of Scott's
- Non-caking feature aids in storage
- High nitrate to ammonium ratio good for year-round production
- One of the most versatile formulas for year-round growing
- Acidic nature counters undesirable water alkalinity
- 200 ppm fertigation
- 400 ppm weekly

## PETER'S SOLUBLE FERTILIZER ANALYSIS

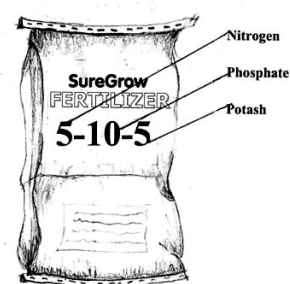
- 20% Nitrogen
  - 7.77% Ammonium
  - 12.23% Nitrate
- 10% Available Phosphate
- 20% Soluble Potash
- Micronutrients:
  - 0.15% Magnesium
  - 0.02% Boron
  - 0.01% Copper
  - 0.1% Iron
  - 0.056% Manganese
  - 0.01% Molybdenum
  - 0.0162% Zinc

## FERTILIZER LABELS

- Can be found on front or back of bag
- Contain product information such as:
  - Analysis of fertilizer
  - Amount to apply
  - How to store fertilizer and

background of fertilizer

- Safety precautions



## Reviewed by:

Dr. Yin-Tung Wang  
Research and Development  
Matsui Nursery  
Salinas, CA

Dr. Mike Orzolek  
Professor of Horticulture  
Penn State University

Dr. Frank Flora  
National Program Leader  
Nutrition, Food Safety, and Quality  
USDA-ARS

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by

Thomas M. Blessington, David L. Clement, and Kevin G. Williams  
Central Maryland Research and Education Center  
University of Maryland

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