



# 20-5-10 SLOW-RELEASE PROFESSIONAL

A TRUE SLOW-RELEASE NITROGEN FORMULATION, EXTREMELY EFFECTIVE, SAFE, VERY LOW IN SOLUBLE SALTS.

## GUARANTEED ANALYSIS

<b>Total Nitrogen (N)</b> .....	<b>20.0%</b>
1.0% Ammoniacal Nitrogen	
13.5% Water Insoluble Nitrogen*	
5.5% Other Water Soluble Nitrogen*	
<b>Available Phosphate (P<sub>2</sub>O<sub>5</sub>)</b> .....	<b>5.0%</b>
<b>Soluble Potash (K<sub>2</sub>O)</b> .....	<b>10.0%</b>
<b>Magnesium (Mg)</b> .....	<b>0.15%</b>
<b>Boron (B)</b> .....	<b>0.06%</b>
<b>Copper (Cu)</b> .....	<b>0.06%</b>
0.06% Water Soluble Copper (Cu)	
<b>Iron (Fe)</b> .....	<b>0.36%</b>
0.36% Chelated Iron (Fe)	
<b>Molybdenum (Mo)</b> .....	<b>0.002%</b>
<b>Zinc (Zn)</b> .....	<b>0.14%</b>
0.14% Chelated Zinc (Zn)	

**DERIVED FROM: Ureaform, Monopotassium Phosphate, Potassium Sulfate, Magnesium Sulfate, Boric Acid, Copper Sulfate, Iron EDTA, Sodium Molybdate, Zinc EDTA**

\*19.0% Slowly Available Nitrogen from Ureaform

## NET WT. 50 LB.

**DOGGETT GROWER SPECIAL** is composed of slow-release nitrogen particles and other essential plant nutrients, providing sustained nitrogen feeding for up to nine months. This is a non-burning, non-leaching nitrogen ingredient. Growing media/soil temperature along with naturally occurring microbes are the primary factors that affect product release. Microbes naturally available in growing media, along with optimum growing temperatures between 55°F and 95°F, provide the ideal conditions for nitrogen release and plant growth. Temperatures generally above 95°F reduces microbial activity. This is a built-in safety net. It is important to note that this unique formula will not dump nutrient during periods of high temperature and moisture.

## LONGEVITY

It has been determined through years of field trials that media temperatures less than 70°F/20°C increase product longevity, and that media temperatures greater than 70°F/20°C decrease longevity. Since growing media temperatures fluctuate with geography and time, a grower should consider crop types and production goals when selecting the appropriate product.

## CULTURAL PRACTICES

The ultimate factor in determining product selection and application rate should be based on individual grower practices. The table below lists general cultural factors that can influence product rate.

### Use a higher rate if your plants are:

- Heavy feeders, salt tolerant
- Fast-growing
- Receiving frequent overhead irrigation or high rainfall
- Grown in coarse and airy media

### Use a lower rate if your plants are:

- Slow growing or salt sensitive
- Under a drip irrigation regime or in an area of low rainfall
- Grown with a combination liquid and slow-release nutrients

- Grown in a tight/fine media with low leaching capabilities
- Grown in Media that has been composted

## APPROXIMATE VOLUME MEASURES

### Conventional Measures

**Bulk Density= 59.13 lbs./cubic ft.**

- 1 teaspoon = 7.5 grams
- 1 tablespoon = 15 grams
- 1/4 cup = 60 grams
- 1/3 cup = 80 grams
- 1/2 cup = 120 grams
- 1 cup = 240 grams
- 1 oz. = 28 grams
- 1 lb. = 454 grams

### Late Summer through Winter application:

Irrigation may be necessary for crops under protective cover to prevent soluble salt build-up. Growers must use caution whenever applying fertilizer to crops with infrequent irrigation, and they should monitor soluble salt levels regularly on these crops and irrigate as needed. Should

irrigation be unavailable in these Winter crops, avoid application of fertilizer. Immediately after uncovering plants in the Spring, irrigate as necessary to provide thorough leaching of any accumulated soluble salt.

**Storage of Mixes:** Slow-release fertilizers release nutrients upon incorporation into growing medias. We recommend you use media with incorporated fertilizer immediately if possible to avoid unnecessary release of nutrients.

### Irrigation Management:

Adjust irrigation volume and frequency to maintain adequate soluble salt levels within the growing media for optimum product performance and crop growth. When it is hot, increase irrigation volume/frequency. When it is cooler, decrease irrigation volume/frequency.

## DIRECTIONS FOR USE

**Application Rates:** The application rates listed are intended as a guideline in developing a fertilization program. These rates may or may not apply to your area of growing conditions. It is the grower's responsibility to determine the appropriate rate. Your rate may be higher or lower than suggested, based on your growing conditions.

**Product Trials:** Always conduct a trial before starting a new fertilizer program. Use several rates and plant types to be grown to determine appropriate rates. Major changes in standard cultural practices should also coincide with a fertilizer rate trial.

**Product Storage:** Store in a clean, cool, dry place. Reseal opened bag by folding top down and securing.

## FOR PROFESSIONAL USE ONLY!

**Caution: Do not ingest or inhale. Keep away from children or pets. Follow label instructions and use care when handling all fertilizer products.**

**Important Notice:** This product has been researched to provide necessary data to support its use on ornamentals. However, it is understood that tests may not have been carried out on all varieties and under all growing conditions. The user should always follow label directions and exercise judgment and caution when using this product on a given variety until familiar with the results under growing conditions.

## CONTAINER SIZE / TOP DRESS RATES IN GRAMS

	No. containers per cubic yard	Application Rate		
		Low	Medium	High
1 gallon	275	12	15	18
2 gallon	140	20	29	40
3 gallon	85	30	48	67
5 gallon	55	48	74	103
7 gallon	35	60	97	134

	Surface area per sq. ft.	Application Rate		
		Low	Medium	High
10 gallon	1.4	87	141	196
15 gallon	1.6	100	151	210

## APPLICATION RATES

Soil mix / Incorporation rates	Low	Medium	High
Lbs. per cubic yard	9.0	12.0	15.0
Lbs. per cubic foot	0.33	0.44	0.56
Lbs. N. per cubic yard	1.8	2.4	3.0

For rates not listed, application should equal 1.5 to 3 lbs. actual nitrogen

1. Reduce rate by 50% if media contains native soil.
2. When liquid fee program is employed, reduce liquid feed amount by 50% and use the next lowest recommended rate.
3. Irrigate after application of product.
4. Do not use this product for unrooted cuttings.
5. Use low rate on heavy or clay soils, or soils with high peat content. Use high rate on light or sandy soils.

## LANDSCAPE APPLICATION RATES

5 lbs. per 1,000 sq. ft. = 1 lb. of Nitrogen  
15 lbs. per 1,000 sq. ft. = 3 lbs. of Nitrogen

The manufacturer disclaims all responsibility for damage to plants and equipment through the use of this product whether used in accordance with directions or not.