

# NITRO+K 22-0-16

## 82% SLOW RELEASE NITROGEN

### With POTASSIUM CARBONATE



- **A CRYSTAL CLEAR TRUE SOLUTION**
- **IDEAL FOR FAIRWAY APPLICATIONS**

#### GUARANTEED ANALYSIS:

Total Nitrogen (N) ..... 22%  
 4% Urea Nitrogen  
 18% Slowly Available Water Soluble Nitrogen\*

Soluble Potash (K<sub>2</sub>O) ..... 16%

**Derived From:** Low biuret Urea, Methylene Urea, Potassium Carbonate.

\*82% slowly available Nitrogen from Methylene Urea

Weight per gallon: ..... 12.1 lbs.

Weight per liter ..... 1.45 kg

pH ..... 10.5

1 gallon contains . . . 2.6 lbs. nitrogen and 1.9 lbs potassium

1 liter contains . . . 0.32 kg nitrogen and 0.23 kg potassium

#### PRODUCT DESCRIPTION:

Nitro+K combines two important elements, nitrogen, and potassium, for quality turf maintenance. This concentrate solution provides the most efficient and reliable sources of nitrogen and potassium. Nitro+K contains a reacted UF polymer (methylene urea), which is a carbon/nitrogen chain. It resists leaching and volatilization, and provides a food source for soil microbes. Nitro+K is a safe and immediately available potassium source.

With the adherence properties of this foliar solution, a turf manager can reduce yearly application rates of N and K by up to 40%, making Nitro+K a cost effective fertilizer for tees, greens, and fairways. Since potassium can be quickly absorbed by leaf tissue, turf will respond within a few days of application. The slow release nitrogen provides consistent nitrogen release without producing flush growth. This reduces unwanted thatch and possible disease problems. Flush growth has been shown to contribute to an unhealthy root system. The production of excess shoot growth takes away energy needed by the plant to produce a healthy root system. Nitro+K does not contain any chlorides, nitrates, or sulfates. This is of special importance, since these will build up unwanted salts in the soil, interfering with seed germination and causing severe plant injury.

#### SUGGESTED USES:

Nitro+K liquid fertilizer solution is a safe, low phytotoxic nitrogen/potassium source for all turfgrass applications (including cool, warm and transitional grasses). Nitro+K can be used with other technical materials for foliar applications. It will enhance the adhesion of some fungicides, insecticides, and herbicides (making them rainfast). When used in combination with PGRs, Nitro+K has been shown to reduce the discoloration that commonly occurs with the use of PGRs. Nitro+K is non-corrosive and non-abrasive, and can be used through any fertigation equipment.

#### APPLICATION RECOMMENDATIONS:

**Tees & Greens:** Apply to tees at a rate of 1/10 to 1/8 lb. N per

- **BALANCED RATIO OF N TO K**
- **NO NITRATES/ NO CHLORIDES**

1,000 sq. ft. every 7 to 14 days with a spray unit applying no less than 1-2 gallons of tank mix per 1,000 sq.ft. This is the recommended rate for all turfgrass species, including the new varieties of bentgrass, such as A-4 and G-2. Applying slow release nitrogen will limit excess growth, and reduce the buildup of unwanted thatch.

Foliar Turf Applications		
Application	Rate / 1,000 FT <sup>2</sup> (100 m <sup>2</sup> )	Frequency
Tees & Greens	5 - 6 oz. (150 - 191 ml)	Every 7-14 days
Fairways & Roughs	12 - 14 oz. (380 - 460 ml)	Apply Every 21 - 35 Days
Sports Turf	12 - 14 oz. (380 - 460 ml)	Apply Monthly
Sod	12 - 14 oz. (380 - 460 ml)	Monthly
Lawn Care	24 oz. (760 ml)	Apply As Needed

**Fairways:** Apply on fairways at a rate of 1/4 to 1/3 lb. N per 1,000 sq. ft. every month with a spray unit applying no less than 2 gallons of tank mix per 1,000 sq. ft. Nitro+K is non-corrosive and can be applied through a fertigation system. The use of a product that contains a high amount of slow release nitrogen has been shown to eliminate surge growth that produces unwanted thatch. Nitro+K can be tank mixed with most pesticides. Applications of 22-0-16, in combination with PGRs, have shown to eliminate the unwanted discoloration that often occurs when PGRs are applied. Due to the dual efficiency (foliar and root absorption) of liquid fertilizers, you should use only 1/2 the rate

If You Apply	Turf Applications			
	Nitro+K in 100 Gallons (400 L) of Tank Mix Nitrogen Rate per 1,000 FT <sup>2</sup> (100 m <sup>2</sup> )			
	1/10 lb N (.05 Kg N)	1/8 lb N (.06 Kg N)	1/4 lb. N (.12 Kg N)	1/3 lb. N (.16 Kg N)
5 gal per 1,000 FT <sup>2</sup>	0.8 gal	1.0 gal	2 gal	2.5 gal
20 L per 100 m <sup>2</sup>	3 L	3.8 L	7.5 L	10 L
4 gal per 1,000 FT <sup>2</sup>	1 gal	1.2 gal	2.3 gal	3 gal
15 L per 100 m <sup>2</sup>	4.2 L	5 L	10 L	13.3 L
3 gal per 1,000 FT <sup>2</sup>	1.3 gal	1.6 gal	3 gal	4 gal
10 L per 100 m <sup>2</sup>	6.3 L	7.5 L	15 L	20 L
2 gal per 1,000 FT <sup>2</sup>	2 gal	2.3 gal	4.7 gal	6.2 gal
7.5 L per 100 m <sup>2</sup>	8.3 L	8.9 L	17.8 L	23.5 L
1 gal per 1,000 FT <sup>2</sup>	3.8 gal	4.7 gal	9.4 gal	12.4 gal
4 L per 100 m <sup>2</sup>	15.6 L	18.8 L	37.5 L	5.0 L

of commonly used granular fertilizers. Always use a jar test before mixing pesticides in your tank. Although Nitro+K has a pH of 10.5, it is important to note that Nitro+K has an acidifying effect on soil. Be sure to check the labels of your technical products for pH compatibility.

Turf Applications:			
Nitro+ K Nitrogen Per Liquid Ounce (ml)			
Apply at desired Nitrogen Rate per 1,000 FT <sup>2</sup> (100 m <sup>2</sup> )			
Nitro+ K	Nitrogen Rate	Potassium Rate	Application Timing
5 oz 150 ml	1/10 lb. N 0.05 Kg N	1/14 lb K 0.03 Kg K	weekly release rate
6 oz 190 ml	1/8 lb. N 0.06 Kg N	1/10 lb K 0.04 Kg K	2 weeks release rate
12 oz 380 ml	1/4 lb. N 0.12 Kg N	1/5 lb. K 0.08 Kg K	4 weeks release rate
14 oz 460 ml	1/3 lb. N 0.15 Kg N	1/4 lb. K 0.1 Kg K	6 weeks release rate
24 oz 760 ml	1/2 lb. N 0.24 Kg N	1/3 lb. K 0.17 Kg K	8 weeks release rate
36 oz 1.14 l	3/4 lb. N 0.36 Kg N	1/2 lb. K 0.26 Kg K	10 weeks release rate

Nursery Applications	
Foliar Spray:	1-2 gal. in 100 gallons of water (1-2 L in 100 L water)
Soil Drench:	1-2 ounces per gallon of water. Thoroughly drench soil around area (8 - 16 ml per liter water)

Greenhouse & Nursery Injection Ratio		
1:100	100 PPM N	3.5 oz. per gallon of water (100 ml in 4 L water)

**STORAGE & HANDLING:**

If stored below 32 ° F Nitro+K will become very viscous. No special agitation is needed. It can be tank mixed with other technical materials. Nitro+K is alkaline (with a pH of 10.5) and compatible with copper-based fungicides.

**Mixing:** Nitro+K must first be diluted with water prior to mixing with other nutrients or pesticides. Do not mix concentrated technical materials together without first diluting with water. Care should be taken when blending Nitro+K with highly acidic materials such as phosphoric acid or ammonium sulfate. Neutralize these materials to a pH of 7 or above. Potassium phosphate, potassium chloride, potassium nitrate, urea and urea ammonium nitrate or phosphorus solutions may be readily blended with Nitro+K after dilution with water.

The following mixing procedures should be used after Nitro+K has been diluted with water. Add products to mix in this order: 1. wettable powders, 2. flowables, 3. water solubles, 4. surfactants, 5. emulsifiable concentrates. Be sure to agitate during each addition. Be sure each product is mixed well before adding next and apply all of the mixture that day. Nitro+K can be mixed with copper based fungicides.

**CAUTION:** Keep out of reach of children. In case of contact with eyes, flush immediately with copious amounts of water. Contact a physician. Do not take internally.

Manufactured By:

