



NITRO[®] +K 22-0-16

WITH 82% SMART NITROGEN PLUS POTASSIUM CARBONATE

- **No Nitrates - Environmentally Friendly**
- **Low Salt Index - No Burn**
- **Potassium Carbonate for Added K**

GUARANTEED ANALYSIS:

Total Nitrogen (N)22%
 3.3% Urea Nitrogen
 18.7% Slowly Available Nitrogen*
 Soluble Potash (K₂O) 16%
 Sources: Low Biuret Urea, Methylene Urea, Potassium Carbonate
 *18.7% Slowly Available Nitrogen from Methylene Urea.
 Weight per gallon12.1 lbs.
 1 gallon contains2.66 lbs. N
 1 gallon contains1.9 lbs. K
 1 Ton (2,000 lbs.) = 166 gallons

PRODUCT DESCRIPTION:

Nitro+K (22-0-16) is a crystal clear liquid nitrogen / potassium solution that can be applied by ground or by air. Because of the sticker benefit of the slow release nitrogen, there is improved K uptake. Nitro+K does not contain any chlorides or sulfates. The low salt formulation was developed to supplement standard soil fertility practices as a foliar feed on crops. Because Nitro+K can be used as a foliar applied nitrogen / potassium source the amount of soil applied nitrogen can be reduced, thus decreasing losses from leaching and volatilization. Each gallon of Nitro+K contains 2.66 lbs. nitrogen and 1.9 lbs. potassium. Nitro+K can also be used as a sticker to enhance chemical pesticide uptake.

CAUTION:

The following conditions must be observed in order to apply Nitro+K 22-0-16 successfully. Failure to follow these instructions may result in damage to the plant.

- DO use Nitro+K 22-0-16 under conditions of optimum plant growth including highest humidity, moderate temperatures and adequate soil moisture.
- DO add, as a minimum, equal amount of water. Do use sufficient water to provide thorough coverage.
- DO a jar test before mixing chemicals in your tank.
- DO dilute Nitro+K 22-0-16 with water prior to mixing with other nutrients or pesticides. 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.
- DO agitate during each addition. Be sure each product is mixed well before adding the next technical material. It is recommended to apply all of mixture in one day.
- DO use the correct label spray rates of any pesticide used with

- **Stress reduction**
- **Induced Potassium Uptake**
- **Provides Extended Feeding**

Nitro+K 22-0-16.

- DO consult your local distributor for rate and application instructions.
- DO NOT use when crop is under heavy stress from pests, heat or inadequate moisture levels.
- DO NOT apply by aircraft if surface wind is greater than 5 miles per hour to assure adequate crop coverage and droplet deposition.
- DO NOT apply during the heat of the day.

CROP TREATMENT RECOMMENDATIONS:

All recommendations are based on broadcast spray application. When band or directed sprays are used, calculate the rate for the "sprayed acre" only. For the most field and horticultural crops the early season applications are directed sprays.

For treatment of individual trees and vines, divide rate per acre by number of trees or vines per acre.

NITRO+ K 22-0-16							
Fluid Ounces of Nitro+ K 22-0-16 per Gallon of Stock Tank Water							
PPM Nitrogen	25	50	75	100	150	200	300
PPM Potassium	18	36	54	72	108	144	216
1:500	5	10	15	20	30	41	91
1:300	3	6	9	12	18	24	55
1:200	2	4	6	8	12	16	37
1:100	1	2	3	4	6	8	12
1:50	0.5	1	1.5	2	3	4	6
1:15 Ratio for Hozon Proportioner							
1:15	0.15	0.30	0.46	0.61	0.91	1.22	1.83

Transplant Solutions		
Application	Rate	Frequency / Notes
Fruit, Nut and Citrus Trees, Berries, Vines	2-3 quarts in 100 gallons of water (2 Liters in 100 Liters of water)	Drench roots at time of transplant with 1 - 2 gallons of mix.(4-8 Liters)
Plugs	Foliar Spray: 1-2 quarts in 100 gallons of water (1 Liters in 100 Liters of water)	Drench plug and plant immediately. Do not allow plants to dry or wilt.
	Injector Ratio: 4 fl oz per gallon of stock water. Set injector to 1:100 (31 ml per liter stock tank solution)	Set injector at 100 PPM of Nitrogen.

STORAGE & DISPOSAL:

Do not contaminate water, food or feed by storage or disposal. Triple rinse container; empty rinsate into spray tank. Dispose of the empty container according to approved local practices; contact county agricultural commissioner for disposal information.

Crop Application Recommendations

Crop	Rate	Application Timing / Intervals
Bananas	1 - 3 gallons per acre (9-28 liters per hectare)	Apply at 2 - 3 week intervals. 20-30 applications per year.
Berries , such as (but not limited to): Blueberry, Blackberry, Raspberry, Strawberry	½ - 2 gallons per acre (5-18 liters per hectare)	Apply prior to bloom. Repeat at fruit set to early fruit color. Repeat every 14 - 21 days until harvest.
Bulb Vegetables , such as (but not limited to): Onions, Garlic, Shallots	½ - 1½ gallons per acre (5-14 liters per hectare)	Apply 3 times each season starting when first early-set is 3 inches, then at midseason, and then 2-3 weeks prior to harvest.
Citrus , such as (but not limited to): Grapefruit, Lemons, Limes, Oranges, Pomelo, Tangelo, Tangerines	½ - 3 gallons per acre (5-28 liters per hectare)	Apply early spring and on flush growth. Apply at pre-bloom to increase fruit set. Apply post bloom to 3rd petal fall to increase fruit size and cell elongation. Repeat in 30 days and when nitrogen needs are evident. Can be applied with crop protection sprays.
Cole Crops , such as (but not limited to): Broccoli, Cauliflower, Cabbage, Brussels Sprouts, Collards	½ - 2 gallons per acre (5-18 liters per hectare)	Apply at early head formation and repeat 14-21 days later.
Cucurbits , such as (but not limited to): Cucumber, Cantaloupe, Squash, Pumpkin, Melons	½ - 3 gallons per acre (5-28 liters per hectare)	Apply at early bloom and repeat approximately 4 weeks later.
Field Crops , such as (but not limited to): Barley, Corn, Oats, Peanut, Rice, Soybean, Sugar Beet and Wheat.	½ - 3 gallons per acre (5 - 28 liters per hectare)	Apply at flag leaf emergence or before flowering and repeat in 14-21 days after pollination.
Fruiting Vegetables , such as (but not limited to): Peppers, Tomato, Eggplant, Okra, Tomatillo	½ - 2½ gallons per acre (5-23 liters per hectare)	First application at early bloom. Repeat at fruit set and again 15 to 30 days later. Apply 3 to 4 weeks prior to harvest to strengthen canopy to reduce sunburn.
Grapes , such as (but not limited to): Wine and Table Grapes	¼ - 2 gallon per acre (2-19 liters per hectare)	Apply at shoot growth to promote full canopy. Reapply at bloom to set fruit, and then again after bloom when nitrogen is needed.
Grasses Grown for Seed, Sod Production, Pasture, Forage and Alfalfa	¼ - 2 gallons per acre (2-19 liters per hectare)	Apply in early spring for good growth, then apply monthly and again after harvesting.
Herbs and Spices , such as (but not limited to): Coriander, Basil, Chives, Dill, Rosemary, Sage & Mint	¼ - 1 gallon per acre (2 -9 liters per hectare)	Apply after planting and reapply after harvesting.
Leafy Vegetables , such as (but not limited to): Lettuce, Celery, Spinach, Parsley, Radicchio	½ - 2 gallons per acre (5-18 liters per hectare)	Apply after transplanting, thinning, or at 2nd true leaf stage. Apply subsequent application at 7-14 day intervals. Use as needed to supplement nutritional requirements.
Legumes and Pulses , such as (but not limited to): Beans, Green Beans, Snap Beans, Lentils, Peas	½ - 2 gallon per acre (5-19 liters per hectare)	Apply shortly after first flower appears. Repeat 10 - 14 days later.
Root, Tuber and Corm Vegetables , such as (but not limited to): Carrot, Potato, Sweet Potato, Beets, Ginger, Radish, Ginseng, Turnip	½ - 3 gallons per acre (5-28 liters per hectare)	Apply after transplanting, thinning, or at 2nd true leaf stage. Apply subsequent application at 10-15 day intervals. Use as needed to supplement nutritional requirements.
Tree Fruits and Nuts , such as (but not limited to): Almond, Apple, Apricot, Cacao, Cherry, Coffee, Filbert, Nectarine, Olive, Peach, Pear, Pecan, Pistachio, Plum, Prune, Quince and Walnut	½ - 3 gallons per acre (5-28 liters per hectare)	Apply first application at green tip, pink bud, dud swell or early bloom. Apply at 30 day intervals up to harvest for improved sizing. Apply post harvest in 1 or 2 applications. Apply as needed to supplement nutritional requirements.
Tropical / Sub Tropical Fruits , such as (but not limited to): Avocados, Coffee, Dragon Fruit, Durian, Mangos, Papaya, Pineapples, Rubber Trees	½ - 2½ gallons per acre (5-23 liters per hectare)	Apply on new major growth and on successive flushes. Spray monthly until harvest. Do not apply during bloom.

Greenhouse Foliar Spray Recommendation		
Application	Rate	Frequency / Notes
For All Types of Greenhouse Crops	Transplanting: Mix 1-2 oz per gallon of water (8-16 ml per liter water)	Soak plug tray or foliar spray after transplanting
	Propagation: ½-1 oz per gallon water (4-8 ml per liter water)	Apply at 2nd leaf stage and then every 10-14 day intervals.
	Maintenance: ½ -2 oz per gallon water (4-16 ml per liter water)	Apply at 10-14 day intervals to supplement nutrient requirements.

Fertigation / Drip Irrigation Rates		
Application	Rate per acre (Hectare)	Frequency / Notes
Sprinkler Irrigation	2-3 gallons (18-28 liters)	Apply 3-6 times per growing season or as needed to supplement nitrogen requirements
Drip Irrigation	Tomatoes & Peppers: 1-3 gallons (18-28 liters)	Apply 2 times per month for 3 to 4 months.
	Strawberries: 1-3 gallons (18-28 liters)	Apply twice monthly throughout growing season.
	Grapes, Trees & Vines: 1-3 gallons (28 liters)	Apply 3 times per year or every 30 days in sandy soils.
	Lettuce, Celery, and leafy Vegetables: 1-3 gallons (18-28 liters)	Apply at first irrigation and repeat as needed.

Ferns	
Plant Type:	Application Rate:
Ferns	Foliar Spray: ½ - 1 gallon per acre in a minimum of 100 gallons of water. Apply every other week (½ - 1 liter per 100 liters water) *Do not mix with any other technical materials

Nursery Applications		
Application	Rate	Notes
Containerized and Field Grown Crops , (including but not limited to): Deciduous and Evergreen Trees, Foliage, Ornamental Grasses, Perennials, Tropicals, Woody Ornamentals	Foliar Spray: 1 gallon per 100 gal of water (1 L in 100 L water)	Thoroughly spray to point of run-off. Apply every 2-4 weeks.
	Injector Ratio: 6-8 fl oz per gallon of stock tank water at a 1:100 ratio (47-63 ml per 1 liter water at 1:100 ratio)	Set injector at 150-200 PPM of Nitrogen. Apply monthly.

Foliar Turf Applications	
Application	Rate
Fairways, Roughs, Sports Turf, Sod and Lawns	Apply 3 – 5 gallons per acre (9 – 15 oz. per 1,000 sq. ft.) every 14 to 28 days during active growth period. Apply in a minimum of 87 gallons of water per acre (minimum of 2 gallons of water per 1,000 sq. ft).
Pastures	Apply 3 – 5 gallons per acre (9 – 15 oz. per 1,000 sq. ft.) every 14 to 28 days during active growth period. Apply in a minimum of 87 gallons of water per acre (minimum of 2 gallons of water per 1,000 sq. ft).

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.

Condition of Sale and Warranty: Growth Products, Ltd. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of Growth Products, Ltd. and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. IN NO CASE WILL GROWTH PRODUCTS, LTD. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

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