



NITRO-30[®] SRN 30-0-0

With 85% SLOW RELEASE NITROGEN

- **DOES NOT LEACH OR VOLATILIZE**
- **DUAL EFFICIENCY - FOLIAR / ROOT UPTAKE**

GUARANTEED ANALYSIS:

Total Nitrogen (N) 30%
 4.5% Urea Nitrogen
 25.5% Slowly Available Water Soluble Nitrogen*
 Derived From: Low Biuret Urea, Methylene Urea
 *85% slowly available Nitrogen from Methylene Urea
 Weight per gallon 10.38 lbs.
 Weight per liter 1.24 kg
 Salt Index 0-4
 1 Ton (2,000 lbs.) = 192.7 gallons
 1 gallon contains 3.1 lbs. Nitrogen
 1 liter contains 0.37 kg nitrogen
 pH 10

PRODUCT DESCRIPTION:

Nitro-30 Slow Release Nitrogen (30-0-0) Liquid Fertilizer is a safe, reliable, slow release nitrogen solution ideal for turf and horticultural applications. Nitro-30 SRN (30-0-0) provides a stable, highly concentrated liquid nitrogen source for spray applications. Nitro-30 is a reacted UF polymer (ureaform); a nitrogen/carbon chain material that are utilized by soil microorganisms. Nitro-30 is a true solution containing water soluble methylene urea along with small percentages of free urea. Nitro-30 provides residual nitrogen release, low volatilization and reduced leaching. It does not contain nitrates. The release of nitrogen from Nitro-30 depends on soil microorganisms, hydrolysis and UV radiation. Since this molecule contains carbon, it provides an energy source for beneficial microorganisms. The nitrogen release works in conjunction with the increase in soil temperature, microbial activity and the plant's increased need for nitrogen. This form of nitrogen molecule resists leaching and volatilization, making it a cost effective nitrogen source. Nitro-30 is not phytotoxic to plant materials. Nitro-30 contains no suspended particles, NEEDS NO SPECIAL AGITATION, and can be used along with other technical products. It is ideal for fertigation systems and is non-clogging and non-abrasive. Nitro-30 can be safely tank mixed with many acidic and alkaline materials. It is an exclusive proprietary product of Growth Products, Ltd.

SUGGESTED USES:

Nitro-30 SRN (30-0-0) Liquid Fertilizer solution is a safe, non-burning, reliable nitrogen source for all turf grass applications (including cool, warm and transitional grasses), tree and ornamental applications. Nitro-30 can be used along with other technical products for low volume foliar spraying. Nitro-30 will enhance contact herbicides and insecticides. It is ideal for fertigation systems since it will not clog or cause abrasion.

APPLICATION RECOMMENDATIONS:

Turf Applications: Nitro-30 can be applied throughout the growing season on cool, warm and transitional grasses. Dilute with

- **LOWEST SALT INDEX OF ANY NITROGEN**
- **STIMULATES SOIL MICROBES WITH CARBON**

water according to desired nitrogen rate per 1,000 sq. ft. (see Tank Mixing Chart for exact quantities for various rates of nitrogen and different volume spraying). Because of Nitro-30's efficacy, yearly nitrogen application rates can be reduced by 1/3 as compared to granular applications. Nitro-30 is ideal for low volume spraying and is compatible with other N-P-K materials and technical products.

TEES, GREENS & FAIRWAYS:

Nitro-30 is recommended for all types of grasses, including Kentucky Blue, Bent, Fescue, Perennial Rye, Bermuda, St. Augustine, Bahia, Zoysia and Centipede. Nitrogen application varies according to climate and grass variety, so be sure to check the appropriate amount of nitrogen to apply per season as each grass variety will be different. Nitro-30 is compatible with most other turf insecticides and fungicides and can be used in place of granular and solubles, providing a non-phytotoxic, slow release nitrogen source.

Nitro-30 is an environmentally sound product. You can apply lower nitrogen rates than with granular products while achieving better results.

Foliar Turf Applications		
Application	Rate / 1,000 FT ² (100 m ²)	Frequency
Tees & Greens	4 - 5 oz. (127 - 159 ml)	Every 7-14 days
Fairway Program	3 oz. Nitro-30 SRN (95 ml)	Apply Monthly
Lawn Care	24 oz. (760 ml)	Apply every 6-8 weeks

Turf Applications: Nitro-30 Nitrogen Per Liquid Ounce (ml) <i>Apply at desired Nitrogen Rate per 1,000 FT² (100 m²)</i>		
Nitro-30	Nitrogen Rate	Application Timing
5 oz (160 ml)	1/8 lb. N (0.06 Kg N)	2 weeks release rate
10 oz (330 ml)	1/4 lb. N (0.12 Kg N)	4 weeks release rate
14 oz (413 ml)	1/3 lb. N (0.15 Kg N)	6 weeks release rate
21 oz (650 ml)	1/2 lb. N (0.24 Kg N)	8 weeks release rate
31 oz (980 ml)	3/4 lb. N (0.36 Kg N)	10 weeks release rate
41 oz (1.3 L)	1 lb. N (0.48 Kg N)	12 weeks release rate

Turf Applications
Nitro-30 Solution in 100 Gallons (400 L) of Tank Mix
Nitrogen Rate per 1,000 FT² (100 m²)

If You Apply	1/10 lb. N (.05 Kg N)	1/8 lb. N (.06 Kg N)	1/4 lb. N (.12 Kg N)	1/2 lb. N (.24 Kg N)
5 gal per 1,000 FT ²	0.6 gal.	0.8 gal.	1.6 gal.	3.2 gal.
20 L per 100 m ²	2.7 L	3.2 L	6.4 L	12.8 L
4 gal per 1,000 FT ²	0.8 gal.	1 gal.	2 gal.	4 gal.
15 L per 100 m ²	3.6 L	4.3 L	8.6 L	17.1 L
3 gal per 1,000 FT ²	1gal.	1.3 gal.	2.7 gal.	5.4gal.
10 L per 100 m ²	5.3 L	6.4 L	12.8 L	25.7 L
2 gal per 1,000 FT ²	1.6 gal.	2 gal.	4 gal.	8 gal.
7.5 L per 100 m ²	7 L	7.6 L	15.2 L	30.4 L
1 gal per 1,000 FT ²	3.2 gal.	4 gal.	8 gal.	16 gal
3.8 L per 100 m ²	13.4 L	16 L	32 L	64.2

Blending Instructions with Urea
50% Nitro-30 with 50% Urea in 100 Gal. of Tank Mix
1/3 lb. Nitrogen per 1,000 Sq. Ft.

If you Apply	Nitro-30	Urea
5 gal. per 1,000 sq. ft	1.6 gal.	11 lbs.
4.5 gal. per 1,000 sq. ft	1.8 gal.	12 lbs.
4 gal. per 1,000 sq. ft	2 gal.	13 lbs.
3.5 gal. per 1,000 sq. ft	2.3 gal.	15 lbs.
3 gal. per 1,000 sq. ft	2.7 gal.	18 lbs.
2.5 gal. per 1,000 sq. ft	3.2 gal.	21 lbs.
2 gal. per 1,000 sq. ft	4 gal.	27 lbs.
1 gal. per 1,000 sq. ft	8 gal.	52 lbs.

TREES & ORNAMENTALS:

The nitrogen release period for deep root injection extends 3 to 6 months depending on soil and climate conditions. There is no danger of phytotoxicity. No special agitation is required. For trees, apply 1 lb. Nitrogen per 1,000 sq. ft. (under canopy). Inject 4"-8" below soil surface, into root zone, with correctly calibrated tree fertilizer injection equipment. For ornamentals, apply 3/4 lb. Nitrogen twice a year as a soil drench.

Tree Care DBH Method

Lb. Nitrogen per Inch DBH	Nitro-30 per 100 Gal of Water
1/18	3 pints
1/12	1/2 gallon
1/6	1 gallon

Apply 5 gallons of tank mix per inch diameter.

GREENHOUSE & NURSERY:

Nitro-30 is a high quality, concentrated slow release nitrogen solution. It has the lowest salt index of any nitrogen source at 0-4. It is ideal for both supplement feeding and constant feed of nursery stock for both foliar and root uptake. This clear liquid can be injected through fertigation, drip irrigation or overhead sprinkler systems.

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.

Nursery Applications

Foliar Spray:	1-2 gal. in 100 gallons of water (4-8 L in 400 L water)
Soil Drench:	1-2 ounces per gallon of water. Thoroughly drench soil around area (29 - 59 ml per 4 L water)

For Supplemental Feeding: Use between applications of granular coated fertilizer to level off nutrients that are often not available or depleted because of adverse weather conditions. This will extend nutrient availability at the end of feeding cycle to avoid costly hand topdressing. Apply at the end of growing cycle prior to shipment, as a final feed to avoid labor, waste and spillage.

Greenhouse & Nursery Injection Ratio

1:100	100 PPM N	3.5 oz. per gallon of water (100 ml in 4 L water)
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For Constant Feed: Use on all nursery stock, potted and containerized plants as both foliar or root feeding.

STORAGE & HANDLING

Do NOT store below 32° F for long periods of time. Freezing temperatures will cause Nitro-30 to become viscous and coagulate. If frozen, place in warmer temperatures and mix with warm water Nitro-30 will regain its normal fluid state. Freezing does not affect the agronomic quality of this product.

Bulk Storage: Nitro-30 can be stored in polypropylene, fiberglass, stainless or mild steel tanks. Heat does not affect this product. Recommended storage temperature for Nitro-30 is 40° F and above. When stored outside for long periods of time in temperatures <32° F it is recommended to dilute the concentrate with water by 10-15% to assure fluidity. If outside temperature is less than 20° F, store inside warehouse. Nitro-30 SRN does not require any special agitation. It is not corrosive to most metals with a slightly alkaline pH and can be used through any irrigation or spray equipment.

Dilution: Nitro-30 can be diluted by either adding the concentrate to water or the water to concentrate without any detrimental effects on the final mixed product. Appropriate quantities of water should be added prior to adding potassium and phosphates or pesticides, fungicides and herbicides.

Mixing: Nitro-30 SRN 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-30 SRN 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-30 SRN after dilution with water.

The following mixing procedures should be used after Nitro-30 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-30 can be mixed with copper based fungicides.

Manufactured By:

