



## 18-0-4 + Micronutrients

### A Fertilizer Solution with Nitrogen, Phosphorus, Potassium, and Micronutrients for Feeding Turf

18-0-4 fertilizer solution provides nitrogen, phosphorus and potassium for a wide variety of turf grasses. 18-0-4 was formulated for the spoon feeding of tees and greens where an N: P: K ratio of 6:0:1 is desired.

18-0-4 nitrogen is derived from urea and potassium nitrate, a high quality, soluble source of N and K ideally suited for foliar application.

18-0-4's micronutrients are derived from copper, manganese, zinc, and iron sulfate - immediately available and quickly absorbed forms of the metals.

18-0-4 was developed for the supplement foliar feeding of all turf grasses including those experiencing stressful growing conditions.

**APPLICATION:** Initiate applications in spring when first green-up appears and repeat as needed during the active growing season. Apply in 2-4 gallons of spray solution per 1000ft<sup>2</sup>.

#### LAWN CARE PROGRAM:

**COOL SEASON GRASSES:** Rates may vary from 1/2 to 1 pound of nitrogen, phosphorus and potassium per 1000ft<sup>2</sup> in 4 to 5 applications at 8 to 12 week intervals for a total application rate not to exceed 3.5 to 4 pounds of N, P or K<sub>2</sub>O per year.

**WARM SEASON GRASSES:** Rates may vary from .75 to 1 pound of nitrogen, phosphorus and potassium per 1000ft<sup>2</sup> in 5 to 6 applications at 8 to 12 week intervals for a total application rate not to exceed 6 to 8 pounds of N, P<sub>2</sub>O<sub>5</sub>, and K<sub>2</sub>O per year. Rates and frequency of application may vary due to cultivar and accepted turf practices.

**NET WEIGHT:** 10.35# (10.35#/Gallon)

**NET CONTENTS:** 1 GALLONS

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**FERTIGATION:** 18-0-4 may be injected during each irrigation at rates of 32 to 64 fluid ounces per 1000ft<sup>2</sup>. Rates may vary in accordance with the irrigation schedule. Use the lower rate in more frequent watering. One gallon of 18-0-4 contains 1.81 pounds of N and .4 pounds of K<sub>2</sub>O.

#### GOLF COURSE PROGRAM:

**FAIRWAYS:** 18-0-4 may be used as the sole nutrient source or combined with additional nitrogen for application on fairways. It is recommended that the applications be split to coincide with the nutritional demands of the cultivars present in the fairways and the cultural program of the superintendent. (Rates may vary from 3 to 4 pounds of N and K<sub>2</sub>O (1.65 to 2.2 gallons of 18-0-4 per 1000ft<sup>2</sup> on an annual basis.)

**TEE AND GREEN:** For spoon-feeding tees and greens, apply 1/4 pound of N (17.6 ounces of 18-0-4) in 2 to 4 gallons of total spray solution per 1000ft<sup>2</sup> every 7 to 10 days. Application may be made in conjunction with the turf protection chemical program. Irrigation is recommended following application or before the next mowing. Application may be made to either wet or dry foliage.

**FERTIGATION:** 18-0-4 may be injected during each irrigation utilizing the current technology and equipment available to the golf course superintendent. It is recommended that rates be in accordance with soil test data and in accordance with the equipment manufacturer's recommendations.

#### GUARANTEED ANALYSIS

<b>Total Nitrogen (N)</b>	<b>18.0%</b>
<b>16.81% Urea Nitrogen</b>	
<b>1.19% Nitrate Nitrogen</b>	
<b>Available Phosphorus (P<sub>2</sub>O<sub>5</sub>)</b>	<b>0.0%</b>
<b>Soluble Potash (K<sub>2</sub>O)</b>	<b>4.0%</b>
<b>Copper (Cu)</b>	<b>0.12%</b>
<b>Iron (Fe)</b>	<b>1.0%</b>
<b>Manganese (Mn)</b>	<b>0.1%</b>
<b>Zinc (Zn)</b>	<b>0.1%</b>

Derived from Urea, Phosphoric Acid, Potassium Nitrate, Copper Sulfate, Manganese Sulfate, Zinc Sulfate, Iron Sulfate, and Citric Acid