



# Super 12-0-0

## Plus Chelated Iron & Manganese

**Super 12-0-0** is a formulation of essential iron, sulfur, manganese, and nitrogen. Iron is the most commonly deficient micronutrient in turf. A deficiency is often caused by insolubility rather than a lack of iron in the soil. Soil characteristics causing this condition include alkalinity, high organic matter, poor drainage, or high levels of Mn, P, Zn, or As. Deficiency symptoms include interveinal chlorosis (yellowing) of young leaves turning white in advanced stages. Necrotic lesions are occasionally present. Thin, weak growth often results.

Manganese is important in the synthesis of chlorophyll and many other physiological functions. Its function is closely related to iron in plants. Manganese is most commonly deficient in veins remaining green, distinct necrotic spots on leaves, and dropping leaves. **Super 12-0-0** also contains a proprietary combination of citric, fulvic and other organic acid chelates which stabilize micronutrient elements and enhance their uptake and translocation within the plant. **Super 12-0-0** is compatible with most pesticides and fertilizers with the exceptions of amino formulation and high phosphate fertilizers.

### Application Instructions

Apply 3 oz. per 1000 sq. ft. of turf in 2.5 gal. of water per month, or 1 gal. per acre diluted in 50 gal. of water per month. (3 oz. per 1000 sq. ft. supplies 0.03 lb. N per 1000 sq. ft.) Do not water turf for 24 hours after application. This product should be used as a supplement to a regular fertility program. It will not by itself provide all the nutrients normally required by plants.

A pre-mix "jar test" is recommended to check compatibility of product combinations that have not been previously tested.

**Shake well before using.**

### Benefits of Use

- Superior color without significant nitrogen
- Rapid response from foliar uptake
- Enhanced root uptake from humic acid
- Increased turf vigor

Problem Conditions Improved with Super 12-0-0

- Off-color or chlorotic turf due to iron and/or manganese deficiency

### Guaranteed Analysis

Total Nitrogen (N).....	<b>12.00%</b>
12.00% Nitrate Nitrogen	
Iron (Fe).....	<b>6.00%</b>
6.00% Chelated Iron	
Manganese (Mn).....	<b>2.00%</b>
2.00% Chelated Manganese	
Sulfur Combined as S.....	<b>4.00%</b>

Derived From  
Urea, Ferrous Sulfate, Manganese Sulfate.

Physical Characteristic  
11.0 lb./gal. (1.32 lb. N/gal)

### PACKAGE AVAILABILITY

**Super 12-0-0** is available in:

- 2.5 gallon jug (2 per case)
- 5 gallon pail
- 30 gallon drum
- 275 gallon mini bulk

### CONDITIONS OF SALE

1. Douglass Fertilizer & Chemical, Inc. (DFC) warrants that this product consists of the ingredients specified and is reasonably fit for the purpose stated on this label when used in accordance with the directions under normal conditions of use. No one other than the officer of DFC is authorized (and such authorization must be in writing) to make any other warranty, guarantee or direction concerning this product.

2. Because the time, place, rate of application, weather conditions and normal or abnormal conditions of use or storage are beyond DFC's control, DFC's liability is limited to replacement of product or refund of purchase price. In no event shall DFC be liable for indirect or consequential damages.



### Handling and Storage

Store between 40-95° F. Avoid direct heat or fire. Decomposition may occur at high temperatures (above 225° F.). Do not freeze!

Keep out of reach of children. Harmful if swallowed. Avoid inhalation, eye contact, or ingestion. Avoid prolonged or repeated contact with skin which may cause irritation. Wash thoroughly after handling. Corrosive.



A Division of Douglass Fertilizer & Chemical, Inc.  
3281 Metro Parkway  
Ft. Myers, FL 33916

800-375-5274 • 239-332-1319 Fax  
www.liquidag.com