

AMMONIUM STABLISER & FE EDTA CHELATE TECHNOLOGY

Liquid nutrition at its best

NUTURF®
SPECIALISTS PROVIDING SOLUTIONS

FOR MORE INFORMATION ON FoliMAX, CONTACT YOUR LOCAL TERRITORY MANAGER OR CALL 1800 631 008.

www.nuturf.com.au

EMAIL: FoliMAX@nuturf.com.au

FoliMAX NFE 15%N, 6% FE, 2% MN

Colour. Growth. Performance.

Liquid nutrition at its best



FoliMAX NFE

FoliMAX NFE is a reliable, highly available liquid iron and manganese formulation with an Ammonium Stabilised Nitrogen source, designed to correct iron deficiencies, maintain plant growth and enhance turf colour and presentation. The high analysis formulation maximises nutrient output and includes EDTA Chelate Iron Technology for improved plant uptake and tank mix stability.



The FoliMAX NFE guaranteed minimum analysis:

Nitrogen (N) as Ammonium Stabilised Technology: 15%

Iron (Fe) as EDTA Chelate: 2%

Iron (Fe) as Sulphate/Citrate Matrix: 4%

Total Iron (Fe): 6%

Manganese (Mn) as Sulphate/Citrate Matrix: 2%

The FoliMAX NFE product characteristics:

pH: 2.0 – 3.5

Specific Gravity: 1.30

Appearance: Dark brown colour

Solubility: Very soluble

Key benefits of FoliMAX NFE

- High analysis iron and manganese in a plant available form for rapid uptake.
- High analysis nitrogen carrier facilitates immediate uptake by plant.
- Nitrogen in an Ammonium Stabilised Technology form for improved longevity and performance.
- 33% of Iron in an EDTA chelate form for improved plant availability and formulation stability.
- Excellent tank mix flexibility.
- Rapid green up response, for improved turf colour and appearance.
- Flexibility in rates to accommodate differing nutritional and plant health response requirements.
- Long shelf life. Stable and very soluble due to the unique formulation.
- Manufactured in Australia.

Iron in turf and landscape plants

Iron (Fe) is the most commonly deficient micronutrient in turf. It is often present in the soil in large quantities, but uptake is restricted by high phosphorus levels, waterlogged soils or very alkaline pH soils. The main function of iron within the plant is the production of chlorophyll. This produces a rapid greening of the turf and landscape plants, making it a desirable practice where colour and aesthetics are important. Iron also increases root growth during the growing season. FoliMAX NFE contains 6% iron, 2% as EDTA chelate and 4% as a sulphate / citrate matrix.

Manganese in turf and landscape plants

Manganese is closely associated with iron in that it is required for chlorophyll synthesis (large component of chloroplast membranes). Thus a manganese deficiency results in discolouration to the turf. Manganese is also associated with nitrate assimilation, enzyme activation and patch disease management in turf. FoliMAX NFE contains 2% manganese, in the form of a sulphate / citrate matrix.

Ideal sufficiency levels of Iron and Manganese in turfgrass plants

Nutrient	Symbol	Available Forms	Sufficiency Range in Plant Material – Ideal Levels
Iron	Fe	Fe^{2+} , Fe^{3+}	30 – 100 ppm
Manganese	Mn	Mn^{2+}	20 – 150 ppm





Iron and Manganese deficiency symptoms

Iron deficiency is characterised by an interveinal chlorosis of turfgrass leaves and an eventual thinning of the turf. The yellowing (chlorosis) seen on leaves with iron deficiency is due to low levels of chlorophyll. Leaf yellowing first appears on the younger upper leaves. Severe iron deficiencies cause leaves to turn completely yellow or almost white, and then brown as leaves die.

Interveinal chlorosis is also the main characteristic of manganese deficiencies. In very severe manganese cases, brown necrotic spots can appear on leaves. Manganese deficiencies mainly occur on organic soils, high-pH soils, sandy soils low in organic matter, and on over-limed soils. Soil manganese may be less available in dry, well-aerated soils, but can become more available under wet soil conditions when manganese is reduced to the plant available form.

The Nitrogen component in NFE

FoliMAX NFE contains 15% nitrogen, in an ammonium stabilised form. The Ammonium Stabilised Nitrogen Technology incorporates a nitrification inhibitor called DMPP. This component inhibits the activity of Nitrosomonas bacteria in the nitrification cycle, delaying the transformation of ammonium (NH4) to nitrate (NO3), which is the most plant available form of nitrogen. Therefore during the active phase of DMPP (4 to 10 weeks, depending on soil temperature and soil humidity) the restrained release of nitrogen into an available form steadily feeds the plant over several weeks while significantly reducing nitrogen losses to leaching and volatilisation. This improvement in fertiliser performance results in economic benefits as the turf manager can extract more plant response from the nitrogen applied, as well as environmental benefits through a reduction in atmospheric and ground water pollution of ammonia.

MIXING PROCEDURE AND COMPATBILITY WITH FoliMAX NFE

Fill spray vessel with half the required volume of water. Shake container of FoliMAX NFE and add required amount to spray tank while agitating. Add remaining water to the spray tank. Continue agitating during application. Wash out spray tank, including nozzles, immediately after use.

FLEXIBILITY IN APPLICATION RATES WITH FoliMAX NFE

Apply as a spray application during the growing season on all turf grass for immediate green-up and a prolonged response in turf quality. Apply to most landscape plants to overcome iron and manganese deficiencies. Dilute with water, using the desired rate and apply in sufficient water to achieve adequate coverage. Use a water volume of 5-15L per 100m² (500-1500 L/Ha), depending on the application rate. Avoid mowing for 24 hours following an application.

Situation	Rate	Comments
Fine Cut Turf (Golf and Bowling Greens)	20 – 40 L/Ha 0.2 – 0.4 L/100m²	Apply in a minimum of 500L of water per hectare. Repeat every 14-30 days during the active growing season. For pre-tournament green-up apply at the higher rate one week prior to event.
High Cut Turf (Fairways, Sportsfields)	30 – 50 L/Ha 0.3 – 0.5 L/100m²	Apply monthly in no less than 500 L/Ha. For pre-tournament green-up apply at the higher rate one week prior to event.
Landscape Plants and Ornamentals	300 mL/100m²	Repeat the application every 30 days or as required.



OTHER KEY PRODUCTS IN THE FoliMAX RANGE

FoliMAX N-Forcer-N 30-0-0

High analysis liquid N formulation containing nitrification inhibitors and SRN-IQ technology to provide a consistent, uniform delivery of nitrogen over a 6-10 week period.

FoliMAX NRG-NK 19-0-13+Fe

A nitrogen and potassium fertiliser solution containing nitrogen in the unique form of SRN-IQ, and the chloride free, dual potassium source. The blend also contains Iron for improved green-up and turf vigour.