



NUTURF
FOLIIMAX
NRG-NK 19-0-13
SRN-IQ & DUAL POTASSIUM TECHNOLOGY



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Liquid nutrition at its best

FoliMAX NGR-NK 19-0-13+Fe

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FoliMAX NRG-NK

FoliMAX NRG-NK is a unique liquid, balanced nitrogen and potassium turf fertiliser. 50% of the nitrogen in the fertiliser is in the form of a new generation SRN-IQ technology which maximises foliar uptake and nutrient utilisation processes within the plant. The potassium component of the product is in the form of a citrate/carbonate complex which provides rapid availability of K to the plant. The formulation also contains iron for enhanced green up and fertiliser response. These features provide you with a reliable, robust and effective maintenance fertiliser that will become an integral part of your turf liquid nutrition program.

The FoliMAX NRG-NK guaranteed minimum analysis-Wt/Vol;

Nitrogen (N) as SRN-IQ Technology-9.5%

Nitrogen (N) as Urea-9.6%

Total nitrogen (N)-19.1%

Total potassium (K) as Citrate/Carbonate Complex-12.7%.

Total iron (Fe) as EDTA -0.40%

Key benefits of FoliMAX NRG-NK

- Turf specific fertiliser, researched and developed purely for turf purposes.
- Contains SRN-IQ technology for improved plant utilisation and prolonged plant growth.
- The SRN-IQ technology provides rapid delivery of nitrogen into the plant.
- Dual forms of potassium, maximises nutrient availability via both the foliage and soil.
- Iron for enhanced green up and fertiliser response.
- Excellent tank mix versatility. Highly compatible with many other fertilisers and chemicals.
- Very low risk of phytotoxicity due to its low salt index, even on immature turf.
- Excellent flexibility in application rates, allowing you to better optimise your nutrition program.
- Non-corrosive formulation. Will not damage spray equipment.

The SRN-IQ technology explained

The SRN-IQ Nitrogen technology is a true liquid, clear urea-formaldehyde solution which has an oily, resinous quality. The SRN-IQ Nitrogen technology has a linear molecular structure, which allows it to be more compact than other slow release nitrogen technologies, and therefore provides it with significantly improved foliar uptake capabilities.

The SRN-IQ's linear molecular structure $H_2N-CH_2(UF)_2CH_2NH_2$

1. RAPID PLANT UPTAKE:

The SRN-IQ Technology does not hydrolyse on the plant tissue, but is readily received across the cell membrane, where it is translocated for storage, metabolism, and use. As a result, the majority of the SRN-IQ Nitrogen can be found inside the plant within 6-8 hours of application, and essentially all of it is absorbed in 24-48 hours. The portion of it which is in its simplest nitrogen state (urea) is used by the plant first. The majority of SRN-IQ Nitrogen remains in the more complex soluble methylene and polymethylene urea forms until the plant can break them out into more usable units of nutrition. This provides a slow release of nitrogen within the internal mechanisms of the plant itself.

2. SLOW RELEASE NITROGEN:

Numerous past research trials have indicated that 0.5kg (500g) of nitrogen from straight urea will feed 100m² of turf for 3-4 weeks (depending upon turf type and environmental conditions). The same amount of nitrogen from SRN-IQ will keep the photosynthesis mechanism fuelled for 6-8 weeks, thus establishing that the SRN-IQ Nitrogen works on a slow release or sustained availability system.

3. ENHANCED SOIL ACTIVITY:

As SRN-IQ Nitrogen is dispersed in the soil, a "wicking" action draws the free water away from the resinous nitrogen molecules, resulting in the formation of more viscous nitrogen solution. This loss of water causes the SRN-IQ Nitrogen to gel and polymerise. The simplest water soluble methylene ureas combine to form longer chain molecules which are substantially less soluble. As this occurs, warm temperatures, moisture availability, and especially microbial action all become necessary to convert the less soluble nitrogen forms into usable nutrition units in the root zone for the plant to uptake. The soil also provides a medium whose pH is generally much lower than that of the SRN-IQ Nitrogen. SRN-IQ's clear nature is based upon the maintenance of an alkaline pH. As the more acidic (or less alkaline) soil interfaces with the more alkaline SRN-IQ's product, a chemical reaction takes place, whereby lower solubility ureaforms are created. This occurrence also converts a significant percentage of the SRN-IQ Nitrogen into a more slowly available N source. Whether by physical or chemical action, SRN-IQ Nitrogen in the soil is transformed into a substantial base of slow release ureaforms. Some of the SRN-IQ Nitrogen is in the form of quickly available urea, which becomes ammonium nitrogen by soil enzymatic action. Other nitrogen molecules in the SRN-IQ matrix resemble amino acid precursors. These latter two types of nitrogen bridge the gap between the plants immediate need for nutrition and the availability of the slower releasing ureaforms, thereby providing a complete and sustained system of feeding.

The potassium citrate/carbonate complex explained



Potassium citrate molecule

Potassium carbonate molecule

The potassium in FoliMAX NRG-NK is present as a citrate/carbonate complex. Having dual forms of potassium optimises availability of the nutrient, both via the leaf and the soil. The potassium citrate component provides a citrate molecule which is found in all plants, and this form of potassium is immediately recognised and assimilated by the plant maximising leaf uptake. The potassium carbonate form is ideal for plant uptake in the soil environment and also has the additional benefits of enhancing disease resistance properties within the turfgrass plant.



Low salt index of potassium sources

Higher salt index fertilisers have a greater potential to cause foliar burn. The lower the salt index the lower the potential for phytotoxicity. Both Potassium Carbonate and Potassium citrate have very low salt index and as a result, FoliMAX NRG-NK has a very low potential for foliar burn after application.

Product	Salt Index
Potassium chloride	120.1
Potassium sulphate	42.6
Potassium thiosulphate	68.0
Potassium nitrate	69.5
Potassium carbonate	<20
Potassium citrate	<10

FLEXIBILITY IN APPLICATION RATES WITH FoliMAX NRG-NK

Apply as a spray application during the growing season on all turf grasses. Dilute with water, using the desired nitrogen rate per 100m² according to the application rate chart. Apply in sufficient water to achieve adequate plant coverage. Use a water volume of 5-15L per 100m², depending on the application rate. Avoid mowing for 24 hours following an application.

APPLICATION RATE CHART			
N Kg/100m ²	K Kg/100m ²	mL/100m ²	L/ha
0.125	0.08	650	65
0.15	0.10	800	80
0.25	0.17	1300	130
0.3	0.2	1600	160

