

# Technical Information Sheet

N-Lock™ is a nitrogen inhibitor for use on maize, cereals and oilseed rape. It is particularly suited for use on light sandy soils where nitrogen is prone to leaching or where crop potential is limited due to nitrogen application levels being restricted.

## Key Benefits

- Keeps more nitrogen in the rooting zone for later growth stages for maximum yield and quality.
- Average yield response of 5% in winter wheat. Average yield response of 7% in maize.
- Reduction of nitrate leaching and greenhouse gas emissions.
  - Reduces nitrate leaching by 50% average.
  - Reduces nitrous oxide emissions by 50% average.

## Application

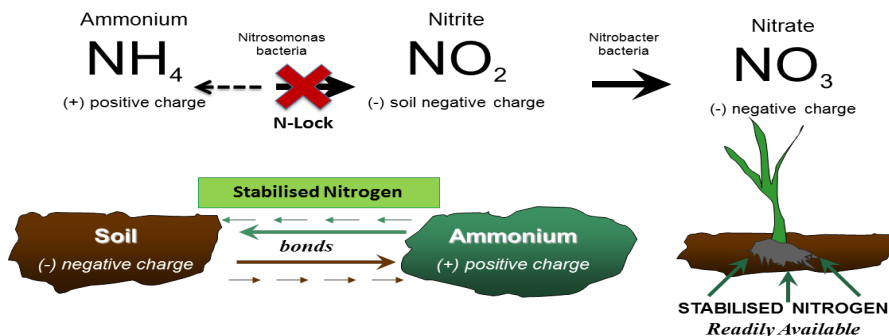
A unique property of N-Lock is the versatility in the way that it can be applied.

- Apply with liquid fertiliser
- Apply with slurries and digestate
- Apply with a crop sprayer

## Key facts

Active Ingredient:	200 g/litre nitrapyrin
Pack Size:	10 Litres
Formulation:	CS Capsule Solution (Microencapsulation)
Recommended Dose:	2.5 litres/ha
Maximum Dose:	Do not apply more than a total of 5 L of N-Lock per hectare per year. (125 days must elapse between applications)
Application Timing:	Best applied in March to cereals and oilseed rape Apply before, at, or after drilling of maize
Water Volumes:	100-200 litres water/ha
Spray Quality:	MEDIUM as defined by BCPC
Nozzles:	All conventional nozzles

## How it works



## Timing

- Can be applied before, with or after nitrogen application. For optimal performance, apply early in the season within 10 days of nitrogen fertiliser application.
- Best applied to cereals (winter and spring) in the spring, 2-3 days prior to application of nitrogen, or in tank mix with UAN (urea ammonium nitrate).
- Apply to maize seed bed and incorporate prior to seeding.
- Apply to oilseed rape in March/April, when nitrogen is being applied.

## Best Use Advice

- Use on light soils which are prone to nitrogen losses, such as sandy loams. Also for use on crops with a high demand for late nitrogen (e.g. for yield and quality).
- N-Lock requires 12 mm of rain within 10 days after application to wash into the soil profile. N-Lock can be applied in the rain when used alone.
- Can be used, with all types of nitrogen fertilisers (ammonium nitrate, urea, liquid UAN, manures & slurries).
- Follow tank-filling procedure on the label and tank cleaning.
- Do not use on high organic matter soils (10%+).
- Seek advice before using on malting barley.

## Tank Filling Procedure

N Lock is a high load viscous formulation which needs good rinsing to fully empty the container:

- Invert the pack 5 times
- Remove the cap and seal/tamper ring
- Pour out  $\frac{3}{4}$  of the product into the induction bowl
- Fill the pack to half full with water. Replace cap, invert 3 times and shake
- Pour out and repeat twice more.

## Tank Mixing

- N-Lock has an extensive list of tank mix partners. Check with our technical hotline, and follow all product label procedures.

## Video

Go to YouTube and search "Optinyte" <https://youtu.be/SpVFTihzUQs>