



Instinct™

Optinyte™ technology

NITROGEN STABILIZER

**MINIMISE
NITROGEN
LOSSES**



#InnovationImpact



Instinct™ is a water-based, micro-encapsulated nitrogen stabiliser containing 300 g/l nitrapyrin.

It minimises nitrogen loss from ammonium-based fertilisers and improves nitrogen use efficiency across maize, cereals, OSR, potatoes, sugar beet, grass, and land intended for these crops.

What does it do?

Instinct keeps more nitrogen in the soil for longer, reducing loss through leaching and nitrous oxide emissions.

This ensures crops have access to a more reliable, season-long nitrogen supply, supporting stronger growth and optimised yield.

For use alongside high readily available nitrogen (RAN) organic materials such as digestate, slurries and poultry manures.



Application

- 1.7 L/ha (max 3.4 L/ha per year)
- Apply pre- or post-planting, spring or autumn
- Best used close to main fertiliser applications
- Can be applied to potatoes, sugar beet, maize, cereals, oilseed rape, grass or land intended for these crops
- 100–300 L water/ha, medium spray quality; any conventional nozzle
- When foliar-applied, ensure 12 mm rain within 10 days

How does it do it?

Instinct uses Corteva's Optinyte™ technology to slow the nitrification process – delaying the conversion of ammonium (NH_4^+) into nitrate for 8–12 weeks.

This stabilises nitrogen in the root zone, reducing losses and improving the timing of nitrogen availability.

Features



- Optimises yield potential of crops fertilised with ammonium containing fertilisers (such as slurry, digestate, UAN, AN, urea, etc.)
- Regulates nitrate availability to crops
- Compatible with a range of crop inputs such as herbicides, fungicides, liquid fertilisers
- Micro-encapsulated formulation with 300 g/l nitrapyrin

Benefits



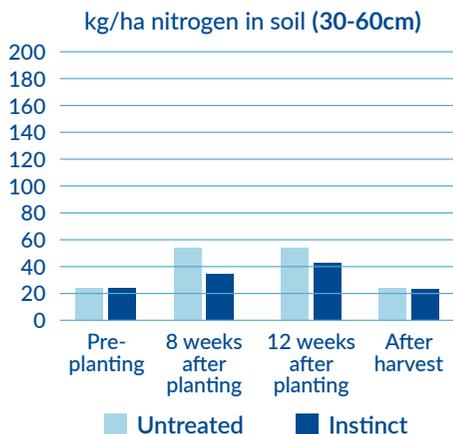
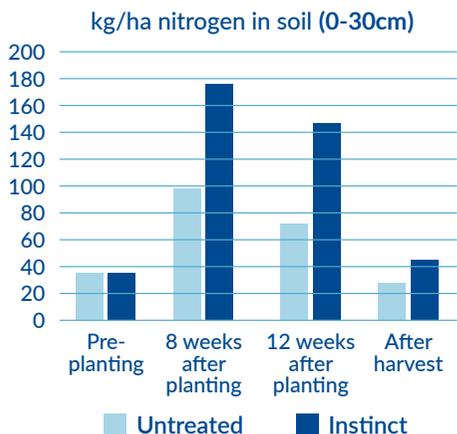
- Keeps 28% more nitrogen in the soil
- Reduces nitrogen leaching by 45–48%
- Cuts nitrous oxide emissions by ~50%
- Extends nitrogen availability by 8+ weeks
- Supports improved root development and crop resilience



Results

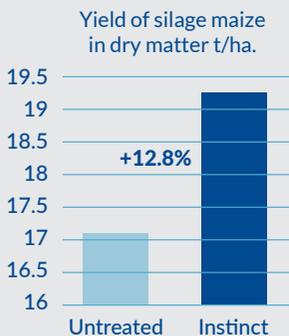
Nitrogen retention

The results of a trial in maize demonstrates how Instinct keeps more nitrogen in the soil for longer. Instinct retains more nitrogen in the upper layers of soil for longer, where it is more accessible to a developing crop.

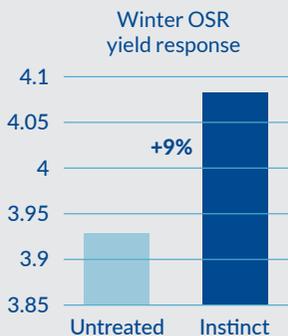


Yield impact

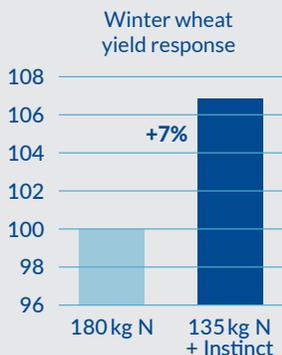
+12.8% silage maize dry-matter yield (n=43)



+9% winter OSR yield (n=42)



+7% winter wheat yield at reduced N rate (n=12)





innovation range

Making a **real impact** on your farm

Bioscience products for healthier, productive crops. #InnovationImpact

Instinct™ Optinyte™ technology
NITROGEN STABILIZER



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