

CENTURO™ UREA



CENTURO™ UREA is urea treated with CENTURO™ nitrogen stabiliser - a next-generation nitrification inhibitor from Koch Agronomic Services featuring the patented active ingredient, Pronitridine. It delivers highly effective below-ground protection that keeps more of your nitrogen in a stable ammonium form for longer.

WHAT THE CENTURO™ STABILISER DOES

Nitrification inhibitors slow the conversion of ammonium to nitrate. In the nitrate form, nitrogen is susceptible to leaching and denitrification. By slowing nitrification, more nitrogen is kept in a stable form for longer, making it more readily available for when plants need it.

CENTURO™ slows the conversion of ammonium to nitrate and holds nitrogen in the ammonium form up to three times longer than untreated urea.

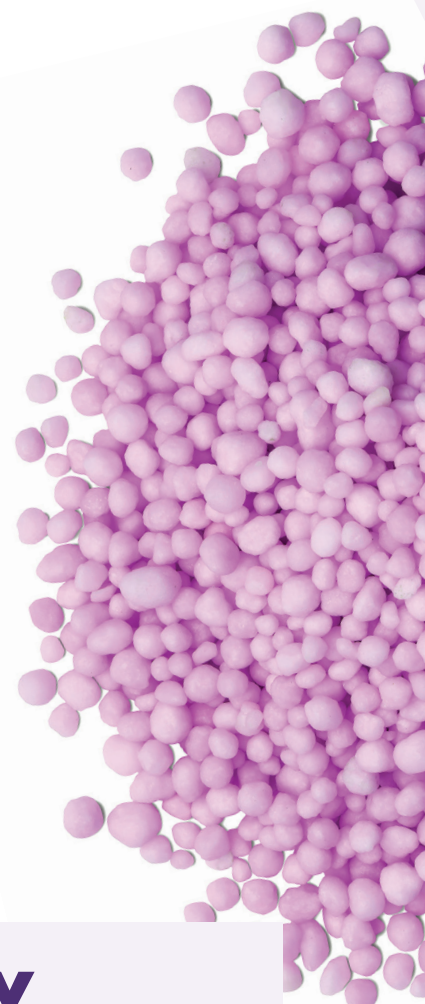
WHY CENTURO™ UREA

CENTURO™ is a highly effective nitrification inhibitor that can:

- Minimise nitrogen loss from leaching and denitrification
- Optimise nitrogen use efficiency & yield
- Reduce nitrous oxide emission potential
- CENTURO™ is also compatible with ammonium phosphate fertilisers and sulphate of ammonia

HOW IT WORKS IN THE SOIL

When urea or other nitrogen-containing fertilisers are applied to the soil, much of the nitrogen converts to ammonium. In this form, nitrogen is readily available for uptake by the crop. Ammonium then converts to nitrate in about two weeks, depending on soil type and temperature. Slowing this conversion is key to preventing nitrogen loss — ammonium binds to the soil, whereas nitrate moves with water and is prone to loss through leaching and denitrification.



The conversion of ammonium into nitrate is a three-step process, the most important step performed by AMO which is found inside the nitrosomonas bacteria.



AMO has an active site where oxidation occurs. When ammonia is oxidised by AMO, it begins the nitrification process.



Research suggests the active ingredient in CENTURO™ exhibits nitrification inhibition by temporarily occupying the active site or altering the enzyme so that it cannot oxidise ammonia. This means CENTURO™ can hold the nitrogen in the ammonium form three times longer than without an inhibitor.

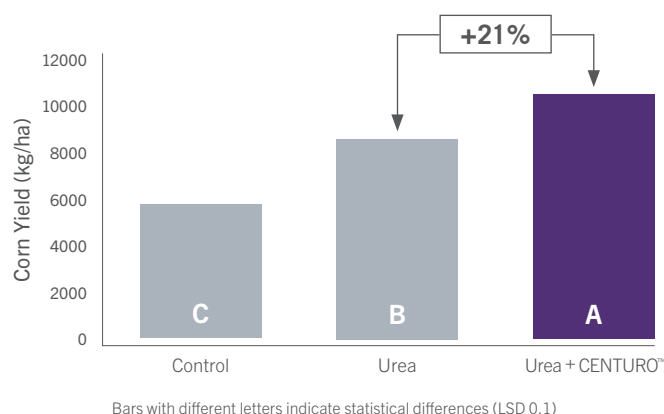
MAKE YOUR NITROGEN WORK HARDER

To learn more about how CENTURO™ UREA may fit within your nitrogen program, contact your Koch Fertiliser Australia marketer.



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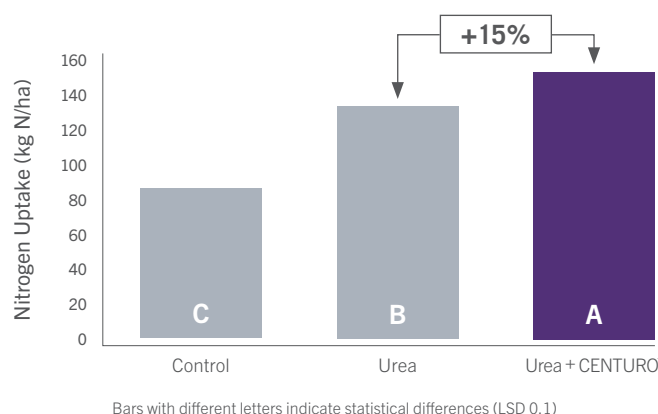
Research Proven Formulation



Treating urea with CENTURO™ significantly increased maize yield by 1800 kg/ha (21%) compared to untreated urea.¹

Trial Details:

- 2021/2022 field study on maize
- 100 kg N/ha as urea applied at V6
- Soil: Ultisol, pH: 6.0; 1.2% OM, 12% clay



Treating urea with CENTURO™ significantly increased maize nitrogen uptake by 19 kg N/ha (15%) compared to untreated urea.¹

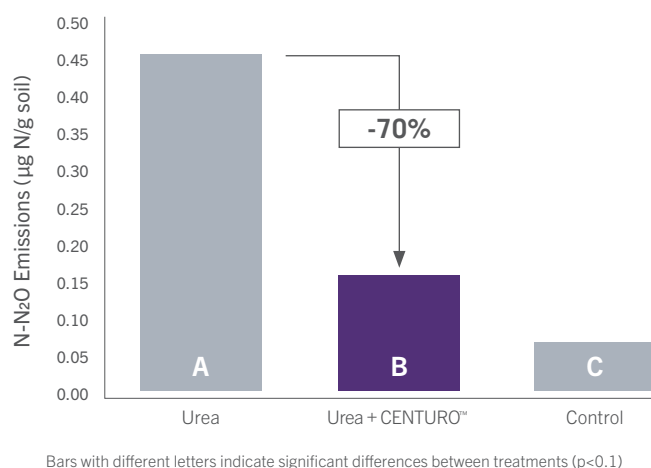
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CENTURO™ UREA REDUCED N₂O EMISSIONS OVER UNTREATED UREA

2025 QUEENSLAND UNIVERSITY OF TECHNOLOGY

Total N₂O emissions from a heavy topsoil from Gatton, QLD incubated for 34 days after fertiliser application.



In a laboratory trial:

- CENTURO™ UREA significantly reduced N₂O emissions over untreated urea by 70%
- Use of CENTURO™ UREA resulted in N₂O emissions not significantly different from the unfertilised control
- Laboratory incubation study conducted at Queensland University of Technology, Australia
- Nitrogen rate equivalent to 281 kg N/ha
- Soil: Vertosol
- Incubation conducted for 34 days after fertiliser application at 22°C and 85% WFPS (water-filled pore space)

The underlying data was provided by Queensland University of Technology (QUT) under a Research Trial Financial Support Agreement with Koch Agronomic Services, LLC. Neither QUT, nor anyone conducting research on its behalf, endorse the product(s) or use of the product(s).

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