FORTIFLO

OMEX

LEADERS IN LIQUID FERTILISER

NOxShield®

INHIBITOR

CONSISTENT YIELD INCREASE

REDUCES HARMFUL EMISSIONS

REDUCES NITRATE LEACHING

SAVES APPLICATION COSTS

First choice for improving Nitrogen Use Efficiency (NUE)

NOxShield® is the leading nitrification inhibitor for liquid fertilisers and organic manures, maximising NUE by reducing leaching and greenhouse gas emissions.

FORTIFLO

NOxShield®

NOxShield® is helping growers take a major step towards Net Zero.

Combining dicyandiamide with urease inhibitors, NOxShield® is certified to EU standards for inhibitor efficacy, and has the ability to reduce nitrous oxide emissions by around 40%. NOxShield® also gives growers confidence to apply higher doses of nitrogen earlier in the season with reduced leaching losses.

With NOxShield® farmers can reduce passes, save costs and manage application more easily. It can be used with organic manures and has no adverse impacts on the abundance of bacteria, archaea and key enzyme activity.

Leaching & nitrous oxide losses

Early nitrogen application on lighter soils which are not quickly used by the crop, result in excess nitrate moving through the soil profile in wet conditions or being denitrified to nitrous oxide by soil bacteria (anaerobic conditions).

Nitrification inhibitors slow down bacterial conversion of ammonium to nitrate, while preventing urea and ammonium leaching. NOxShield® allows a steady release of nitrate to the crop with no excess nitrate, and long term trials have yielded the following improvements:

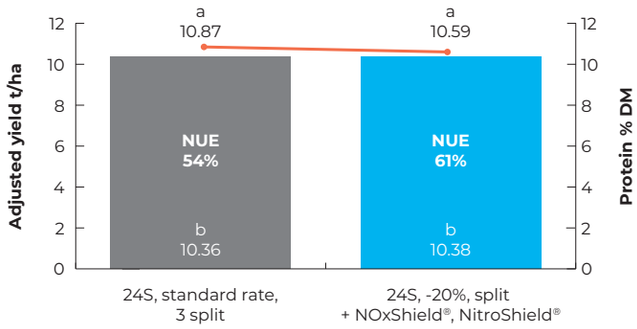
Increase in yield	7.7%
Reduction in nitrous oxide emissions	66%
Reduction in nitrate leaching	49.5%

Increased yields

NOxShield® consistently delivers, maintaining nitrogen supply in wet and dry springs and increasing yields consistently – proven through OMEX trials, independent trials and grower success stories.

WHEAT TRIAL RESULTS

Yield & protein



2023/52, Helpston.

TRIAL RESULTS WITH SLURRY

NOxShield® + slurry in autumn/winter

		Yield increase with NOxShield®	
Crop	**No. of trials**	**t/ha**	**%**
Silage maize	26	5.0	9.8
Sugar beet	31	2.6	4.7
Potatoes	8	2.6	7.9
Cereals	41	0.4	6.9
Grassland (DM)	10	0.8	8.1
Total	**116**		**7.1**

NOxShield® + slurry in spring

		Yield increase with NOxShield®	
Crop	**No. of trials**	**t/ha**	**%**
Silage maize	35	2.9	6.0
Sugar beet	21	28.4	3.6
Potatoes	7	3.4	8.9
Cereals	31	0.5	7.3
Grassland (DM)	16	0.4	4.5
Total	**110**		**5.9**

FORTIFLO liquid foliar fertilisers nourish the nation's crops with the right nutrients at the right time, helping them to reach their full yield potential.

Call us on 01526 396000 or visit omex.com/uk

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