

Sports turf

iNTrench[™] is a liquid fertiliser which provides controlled nitrogen release based on PiNT[™] technology. It is specifically designed for professional sports turf.



Benefits of iNTrench

- Prolonged nitrogen availability up to 10 weeks
- Rapid and persistent greening with better blade colour than competitors
- Excellent overall visual quality
- Reduced N application rates and minimal nitrate leaching
- Good turf safety even at high temperatures
- Formulated with calcium (iNTrench Ca) or potassium (iNTrench K).

Nutrient content						
Nutrient	iNTre %w/w	nch K g/L	iNTrer %w/w	nch Ca g/L		
Total nitrogen (N) [of which nitric]	15 [1.3]	180 [15]	15 [5]	202 [67]		
Potassium oxide (K ₂ O)	7	84	_	-		
Calcium (Ca) [calcium oxide (CaO) equivalent]	-	-	7 [9.8]	94 [132]		
Boron (B)	-	-	0.17	2.3		

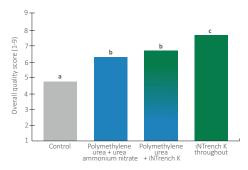
PiNT Advanced nitrogen technology

PiNT is a stabilised ureic/cation complex, providing a controlled release of ammonium which can be converted to nitrate. This managed release maximises N availability whilst minimising leaching and volatilisation, without the need for urease inhibitors.

Independent trials

iNTrench delivers as a supplement or solo treatment

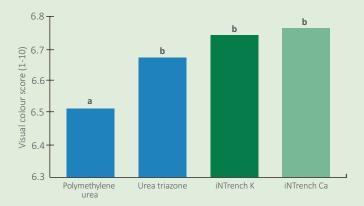
A trial, at Michigan State University in the US on mixed bentgrass and *Poa annua*, substituted iNTrench K for a polymethylene urea base application (36.6 kg/ha of N), and/or a urea ammonium nitrate 'spoon-feed' (4.9 kg/ha), over a 7 week period. The turf quality was significantly better (P<0.05) when iNTrench K was used throughout. Bars with different letters are significantly different to each other (P<0.05).





Better colour and quality

A trial, carried out at the Sports Turf Research Institute (STRI) in the UK, compared iNTrench Ca and iNTrench K to two competitor products. The graph shows iNTrench delivered a statistically significant (P<0.05) increase in visual colour score, compared to polymethylene urea, and numerically better visual colour scores than urea triazone when the same rate of N was applied (6, 12 or 24 kg/ha). Bars represent the average of the three N rates.

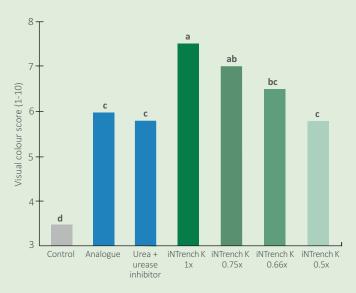




STRI trial conducted in the UK. Photo taken six weeks after initial applications.

iNTrench performs even at lower rates

In a trial on Poa annua at Pebble Beach, California, iNTrench K was compared with untreated plots, an analogue fertiliser (which comprised of potassium nitrate and ammonium sulphate), and a competitor product with a urease inhibitor. When the same amount of N was applied (39 kg/ha), the turf colour was significantly better with iNTrench K (P<0.05). Even when lower application rates of iNTrench K were used, the colour scores were still comparable to those from the analogue and competitor treatments.





Directions for use

Apply 20-100 L/ha to achieve desired N input. Use first in the spring when new growth appears, repeat every 4-10 weeks to maintain growth and quality. Due to the improved efficiency of N delivery and uptake, iNTrench can be applied at 25% to 33% less nitrogen than conventional slow release N products. For more detailed advice, consult your agronomist.

Application rate (L/ha)	N Input (kg/ha) iNTrench K iNTrench Ca		Water rate (L/ha)
20	3.6	4.0	300-600
60	10.8	12.1	300-600
100	18.0	20.2	300-600



Tank mixing

iNTrench is compatible with most pesticides, adjuvants and foliar fertilisers. Mixing iNTrench Ca with products containing high levels of sulphate or phosphate may cause precipitation. Always conduct a jar test before use to ensure physical compatibility.





Find more information on our PiNT technology products for turf at: www.plantimpact.com



