

True Performer in a Wide Variety of Conditions

Isodure™



Exclusive Premium Technology

Isodure™ is a unique, slow release nitrogen source that delivers more water insoluble nitrogen WIN (89%) than any other slow-release nitrogen source. Isodure™ releases nitrogen through dissolution and hydrolysis and is independent of microbial activity and soil temperature making it a clear choice for turf managers seeking a nitrogen source available in a wide temperature range. With a salt index of 5, Isodure™ is safer to apply than most non-coated nitrogen sources. Benefits include reduced nitrogen loss, less thatch build-up and limited surge growth all season long.

Turf Benefits

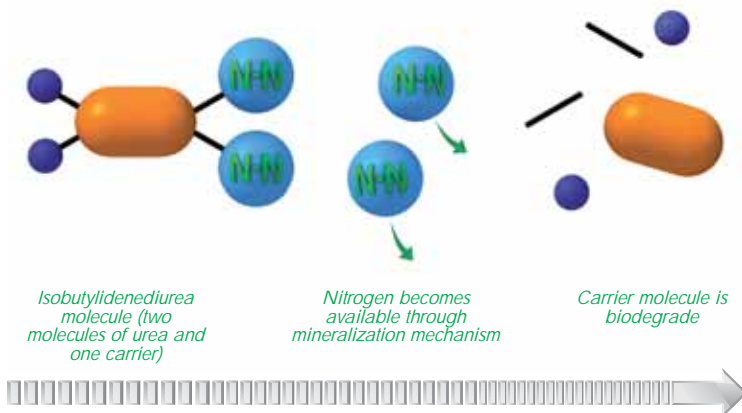
- Isodure™ nitrogen is released through dissolution and hydrolysis which allows it to perform consistently regardless of soil temperature. Isodure nitrogen release is in line with plant demand and turfgrass growth.
- The extremely low solubility of Isodure™ guarantees slow and constant nitrogen release.
- Extremely low salt index for safer application
- Isodure™ is a non-hygroscopic fertilizer which means that it stays dry in the bag and spreader for easier application.



How it works

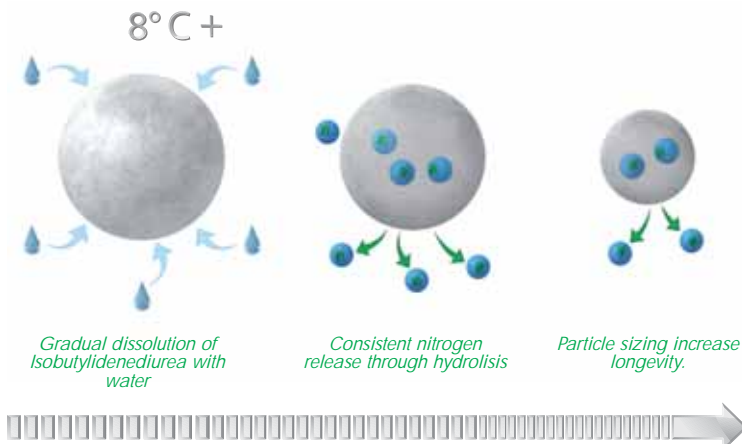
Unique Technology

Every molecule of Isodure™ contains two molecules of urea and one of the carrier molecule isobutyraldehyde. The resulting isobutylidenediurea molecule breaks down through dissolution and hydrolysis and is nearly independent of temperature for release.



Mineralization Mechanism

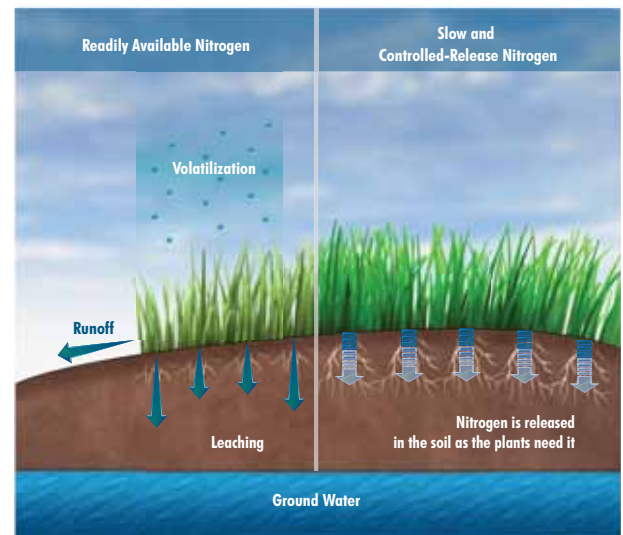
The mineralization rate of Isodure™ is determined by the rate of dissolution and hydrolysis. Isodure™ has an extremely low solubility and is broken down with water through the process of hydrolysis over a period of 2 - 4 months. Particle sizing also has an influence on the nitrogen release rates. Larger prills take more time to release. This process also ensures minimal release during periods of drought or temperatures lower than 8°C.



Environmental Benefits



Isodure™ technology is an easy choice when searching for a nitrogen source when you are concerned about nitrogen leaching. Due to the nature of the hydrolytic release, nitrogen only becomes slowly available as the plant can utilize it, leaving little to no unused urea from Isodure™ in the soil solution. Additionally, turf grows at steadier rate, reducing surge growth and unnecessary mowing, ultimately reducing the carbon footprint of a turf management operation.



Products available

- 17-0-17 N-Fusion™ Micro - Isodure™
- 21-0-16 Micro - 45% Isodure™

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