

NZONE



Nitrogen Stabilizer



AgXplore

INTERNATIONAL, INC.

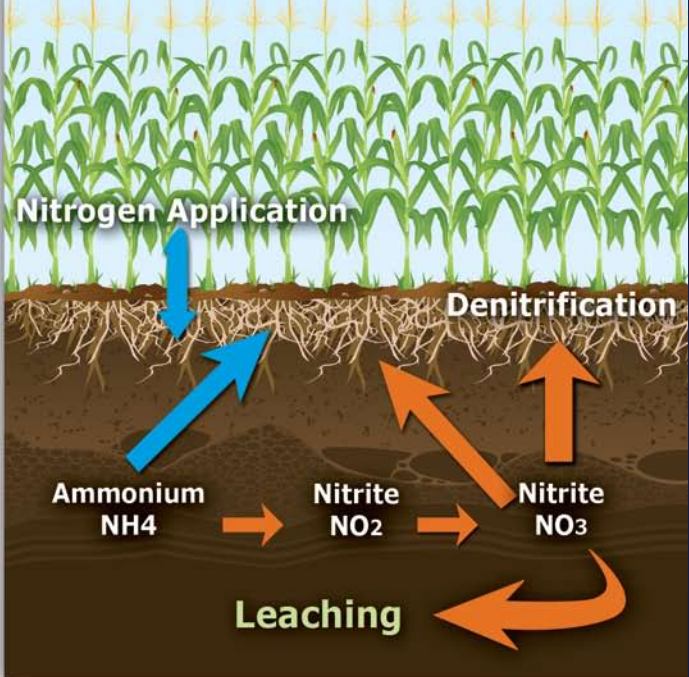
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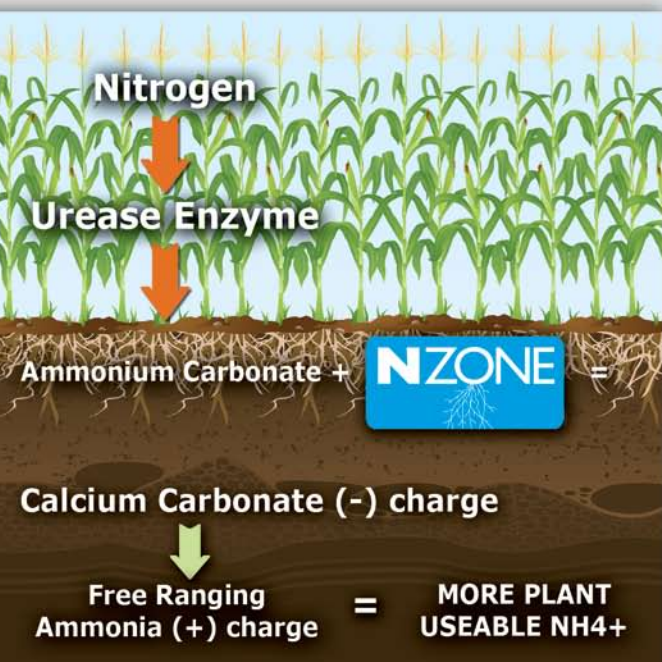
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NZONE: Nitrogen Stabilizer

NZONE is a nitrogen stabilizer that reduces or prevents nitrogen loss through volatilization, leaching and denitrification. Volatilization is the largest form of nitrogen loss; the average is 20% across all temperature zones. Volatilization occurs with surface application of urea that is not incorporated with rain or conventional tillage. Urease inhibitors are designed to slow the process of volatilization. Leaching is another form of nitrogen loss. As urea is converted into NO_2 , water pulls the fertilizer downward and out of the root zone. Denitrification is the last process in which nitrogen is lost. Denitrification occurs when urea is converted into NO_3 and is lost to the atmosphere through a gaseous reaction.



***NZONE** controls the release of nitrogen to crops before and after soil incorporation holding stabilized nitrogen in the root zone weeks after soil incorporation.*

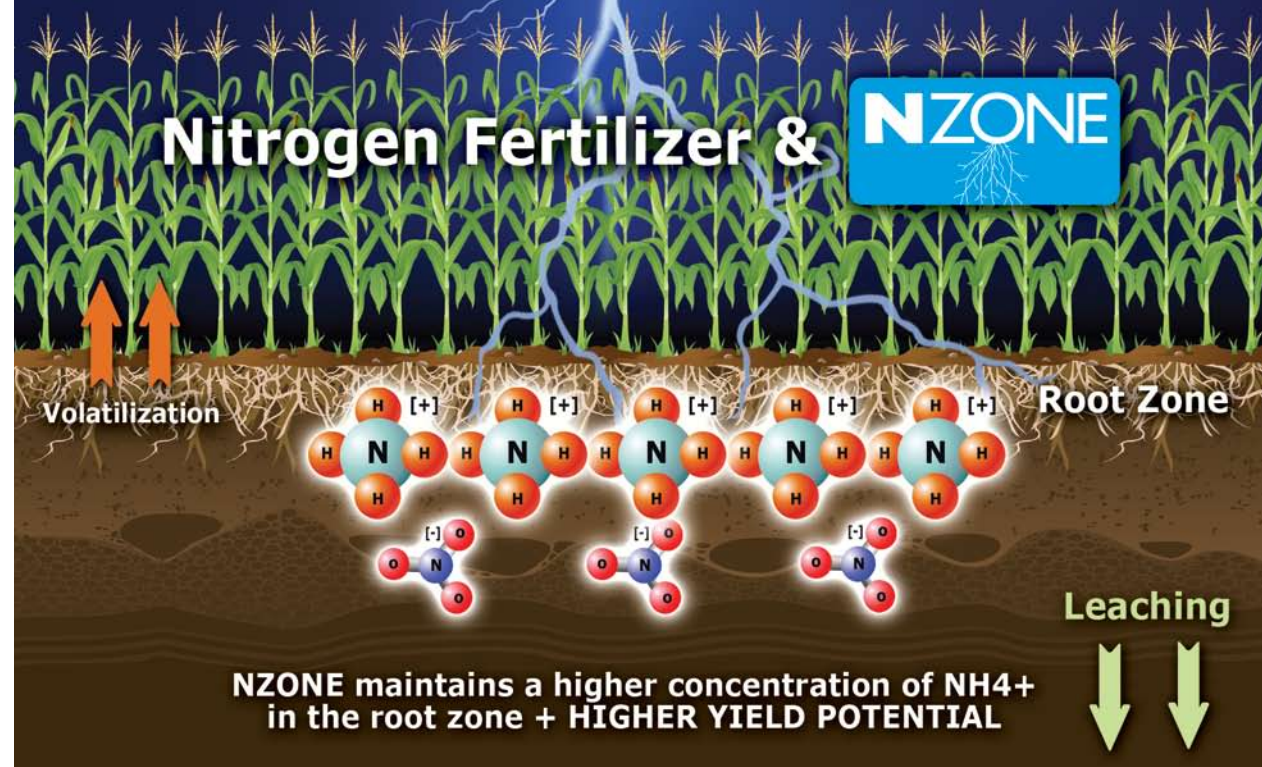


NZONE: Nitrogen Efficiency

NZONE combats all three reactions the following way. NZONE's calcium polymers (Ca-Aminoethylpiperazine and Ca-Heteropolysaccharides) react with ammonia carbonate producing calcium carbonate. Free ranging ammonia in the soil attracts the calcium carbonate forming a plant usable form of Nitrogen (NH_4). Polymers and NH_4 attach themselves to soil colloids prohibiting all loss pathways above the below ground. NZONE works with most nitrogen fertilizer platforms including, urea, UAN solutions and liquid manures.

NZONE: A Stand Alone Nitrogen Additive

When comparing urease inhibitors to NZONE it is important to remember that NZONE is a nitrogen stabilizer. By design both urease inhibitors and NZONE reduce or prevent nitrogen loss to crops. Their modes of action, however, are totally different. Urease inhibitors prevent the urease enzyme from converting urea into ammonia carbonate, virtually locking the urea on the soil surface. When the fertilizer source is incorporated into the soil by either rain or conventional tillage the urea acts as if it were never treated, breaking down as normal. NZONE controls the release of nitrogen to crops before and after soil incorporation holding stabilized nitrogen in the root zone weeks after soil incorporation.



NZONE maintains a higher concentration of NH_4^+ in the root zone + HIGHER YIELD POTENTIAL

NZONE



Nitrogen Stabilizer

Application Rates:

	5 to 7 Days Control	8 to 10 Days Control	14 Days Control
Urea	2.0 qt/ton	3.0 qt/ton	4.0 qt/ton
UAN 28%	1.0 qt/ton	1.5 qt/ton	2.0 qt/ton
UAN 30%	1.5 qt/ton	2.0 qt/ton	2.0 qt/ton
UAN 32%	1.5 qt/ton	2.0 qt/ton	2.0 qt/ton

Liquid Manure Application: 12.8 oz/Acre

PrePlant or Band Injection Application: Apply 1 – 2 qt/ton NZone

Broadcast Application: Apply 1 – 2 qt/ton NZone

Side Dress Application: Apply 1 – 2 qt/ton NZone

Active Ingredients

Ca-Aminoethylpiperazine

Ca-Heteropolysaccharides

For More Information Contact:



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