PROTECT YOUR NITROGEN INVESTMENT

Nitrogen loss through ammonia volatilization can be a serious problem impacting yield potential and return on investment. AGROTAIN® nitrogen stabilizer is proven to control loss from ammonia volatilization, ensuring that your nitrogen investment remains readily available for plant uptake.

NITROGEN LOSS IS REAL

Research studies prove that nitrogen loss due to ammonia volatilization can be significant (up to 40%) when urea or UAN is not adequately incorporated.

“Adequate incorporation” means more than 0.5 inches of rain or irrigation or mechanical incorporation into the soil of more than 2 inches deep.

Volatilization takes place when the urease enzymes break the urea molecule into ammonia gas – which can be lost to the air. This occurs in both warm and cold temperatures.

NITROGEN LOSS DUE TO AMMONIA VOLATILIZATION

With untreated urea, up to 40% of nitrogen was lost due to ammonia volatilization.

With AGROTAIN treated urea, cumulative loss due to ammonia volatilization was under 10%.

EFFECT OF IRRIGATION ON AMMONIA VOLATILIZATION

With untreated urea, 0.5 inches of irrigation was required to reduce loss due to ammonia volatilization from approximately 50% to 15%.

With AGROTAIN treated urea, cumulative loss due to ammonia volatilization was less than 6% even after 19 days of measurement regardless of how the irrigation/rainfall was applied.

Sources: Franzen et al., 2010; Kelly, 2009; Holcomb et al., 2010; and Holt, 2008.

Neither the research institution nor the individual researcher endorse or recommend any product or service.
PROTECT YOUR NITROGEN, PROTECT YOUR YIELDS

When there isn’t enough nitrogen available for plants during their major growth period, it means lost yield potential. AGROTAIN® nitrogen stabilizer is proven to optimize yields in situations where nitrogen loss is a limiting factor.

*A Based on corn data collected from 2010-2013, wheat data collected from 2006-2013, and rice data collected from 2004-2013 when nitrogen loss was the limiting factor. Actual results may vary based on a number of factors, including environmental conditions. AGROTAIN® and the AGROTAIN logo are trademarks of Koch Agronomic Services, LLC. Koch and the Koch logo are trademarks of Koch Industries, Inc. ©2015 Koch Agronomic Services, LLC.

AVERAGE CORN YIELD BENEFIT WITH AGROTAIN®
+20 BU/ACRE

AVERAGE WHEAT YIELD BENEFIT WITH AGROTAIN®
+4 BU/ACRE

AVERAGE RICE YIELD BENEFIT WITH AGROTAIN®
+510 LBS/ACRE

FORMULATIONS

AGROTAIN stabilizer comes in a variety of formulations to meet the needs of your specific operation.

AGROTAIN® ADVANCED 1.0
An innovative, patented liquid formulation with optimized cold-weather handling properties and quicker drying time when applied to urea. The proprietary formulation allows for a reduced application rate, minimizing the potential for buildup and allowing retailers to treat faster and store less product.

AGROTAIN® DRI-MAXX
This highly concentrated, patented dry formulation of AGROTAIN stabilizer offers improved handling characteristics and better flowability. This product adheres to the urea granules without adding additional moisture to the blend, resulting in minimal buildup.

AGROTAIN® ULTRA
AGROTAIN ULTRA stabilizer is a liquid formulation urease inhibitor that protects against ammonia volatilization. It can be blended with urea or UAN.

<table>
<thead>
<tr>
<th>FORMULATIONS</th>
<th>UREA (28-32%)</th>
<th>UAN (28-32%)</th>
<th>UREA (28-32%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UREA</td>
<td>2 qts. per ton</td>
<td>1 qt. per ton</td>
<td>2.5 lbs. per ton</td>
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TESTIMONIAL:

“AGROTAIN ADVANCED 1.0 is easy to use and it provides excellent coverage on urea. The product dries on urea incredibly fast, especially compared to other competitive products we have used that can make the urea wet and difficult to handle. Because AGROTAIN ADVANCED 1.0 dries so quickly, we don’t see buildup on our blender, belts or in our air machines, even in humid weather.”

NICK CASTRO
Agronomy Sales Manager
CHS Northern Plains Coop
Gettysburg, SD

THE POWER TO MAKE THINGS GROW

Koch Agronomic Services