



## One Product Solution to Reduce Nitrogen Losses Below Ground

Nitrogen is one of the costliest crop inputs. Regardless of how you are applying your Nitrogen – it is subject to potential losses due to many factors. The risk of this loss depends on the type of Nitrogen source being utilized, soil type, temperature, and management practices. NCASE Below Ground is specifically formulated to improve nitrogen efficiency in a range of conditions and is for use with anhydrous ammonia, UAN solutions and liquid manure.

### RECOMMENDED CROPS

Row crops

### FEATURES & BENEFITS

- **Formulated to help** build soil biological activity
- **Non-toxic** with no detrimental effects on soil bacteria and non-corrosive to equipment
- **Specifically formulated** for UAN, anhydrous ammonia and liquid manure
- **Increases nitrogen** efficiency, availability, and uptake
- **Up to three weeks of above ground protection** from volatilization
- **Reduces nitrogen loss** below ground up to 47%
- **Non-corrosive** calcium based polymer

### DIRECTIONS FOR USE

NCASE Below Ground is intended for use as a penetrant with anhydrous ammonia, liquid fertilizers, and liquid manures. It is intended to be used as a supplement to a regular fertilizer program and will not, by itself, provide all nutrients required by crops and other plants.

#### Use Rate:

- **ANHYDROUS AMMONIA:** Use 6 oz. of NCASE Below Ground per 50 units of nitrogen
- **LIQUID FERTILIZERS:** Use 2 qts (64 oz.) of NCASE Below Ground per ton of UAN (28%, 30% or 32%)
- **LIQUID MANURES:** Use 24 oz. to 32 oz. of NCASE Below Ground per acre

**Storage:** Store away from direct sunlight or ultraviolet light. Keep container tightly closed when not in use. Store in a dry place. Protect from atmospheric moisture.

#### Packaging:

- 2x2.5 gallon jugs
- 250-gallon totes

### ACTIVE INGREDIENTS

Ca-Heteropolysaccharides.....	5.2%
Ca-Aminoethylpiperazine.....	5.8%
Alkylaryl polyoxethylene glycols.....	22.0%
Ammonium thiosulfate.....	2.0%
Other Ingredients .....	65.0%
<b>Total .....</b>	<b>100%</b>

### IMPORTANT USE INSTRUCTIONS

#### ANHYDROUS AMMONIA:

- 1) Operator must follow all anhydrous safety precautions.
- 2) Inject NCASE Below Ground through liquid fill valve.
- 3) If pressure exceeds 150 psi, inject NCASE Below Ground through the liquid withdraw valve.
- 4) Proper maintenance is required. Flush valve thoroughly with anhydrous. Coat fill valve thoroughly with a petroleum or silicone based lubricant. Apply treated anhydrous using conventional anhydrous application equipment.

#### LIQUID FERTILIZERS:

NCASE Below Ground may be mixed with liquid fertilizers such as aqua ammonia or other liquid ammonical fertilizers. Liquid fertilizers containing high levels of phosphate should not be used with NCASE Below Ground.

If pesticides are added to the tank mix in conjunction with liquid fertilizers, a compatibility jar test should be performed prior to large-scale application to the field.

#### LIQUID MANURES:

NCASE Below Ground may be mixed with liquid animal manures. NCASE Below Ground may be applied to slurry pit or through an injection system as material is loaded into applicator.