



# Biological Friendly Dry Fertilizer Treatments

**MERISTEM**<sup>®</sup>  
**CROP PERFORMANCE**

2014-2015

2014-2015

# Build Strong, Healthy Plants Fast



## **Build Strong, Healthy Plants Fast**

Deliver biofertilizers and biostimulants to the furrow that fix N, solubilize nutrients, and increase root structures.

**MERISTEM<sup>®</sup>**

**CROP PERFORMANCE**



# Hopper Throttle Planter Box Portfolio

***MERISTEM***<sup>®</sup>  
***CROP PERFORMANCE***





# REVLINE™

## HOPPER THROTTLE™

# CORN

### PLANTER BOX TREATMENT

POWERED BY

BIO-CAPSULE  
TECHNOLOGY

## NUTRIENT & MICROBIAL PLANTER BOX DELIVERY SYSTEM

REVLINE™ HOPPER THROTTLE™ CORN (RHTC) is a best-in-class 80/20 talc/graphite combination that ensures optimum performance in today's high-speed planters. It can take the place of any seed fluency agent.

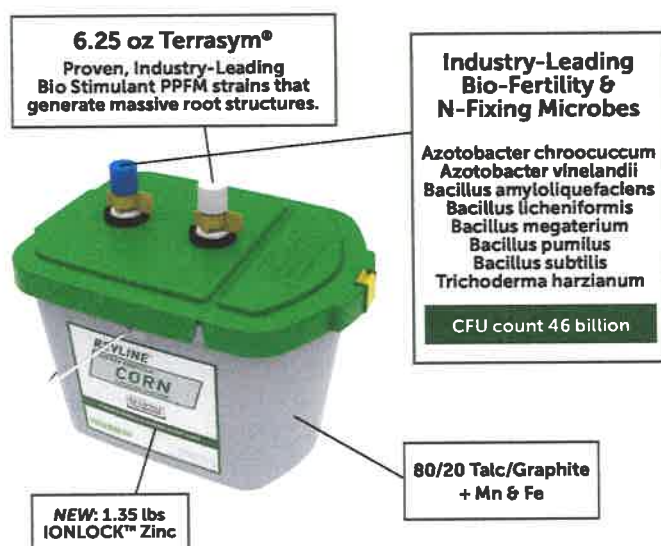
The base product also includes 1.35 pounds of IONLOCK™ Zinc plus Iron and Manganese. These micronutrients are essential for fast emergence and strong, healthy plants.

RHTC is powered by BIO-CAPSULE TECHNOLOGY™ - a patented delivery system that helps farmers save time, labor and fuel. The BIO-CAPSULE carrier system allows for the addition of multiple biological solutions safely packaged for convenient deployment at planting.

### PRODUCT BENEFITS

- Most convenient method to deliver a high-volume load of zinc to the furrow
- Generates massive root structure
- Increases early-season iron, manganese and zinc uptake
- Puts corn plants in the position to manage season-long stressors and optimize genetic potential

[Ultimate coverage on every seed.]



Actual product packaging may be different than this visual

### BASE INGREDIENTS:

80/20 TALC, GRAPHITE AND MICRONUTRIENT BLEND

### GUARANTEED ANALYSIS

Iron (Fe).....	0.70%
Manganese (Mn) .....	0.90%

Derived from Ferrous Oxide and Manganese Oxide.

### BASE INGREDIENTS CONTAIN 27% IONLOCK™ ZINC

IONLOCK ZINC is designed to increase singulation performance, adhere microbes to seed coats, and provide valuable early emergence nutrition.

### BIO-CAPSULE INGREDIENTS:

#### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Azotobacter Chroococcum.....	5.0x10 <sup>7</sup> CFU/g
Azotobacter Vinelandii.....	5.0x10 <sup>7</sup> CFU/g
Bacillus Amyloliquefaciens.....	6.8x10 <sup>8</sup> CFU/g
Bacillus Licheniformis.....	1.4x10 <sup>9</sup> CFU/g
Bacillus Megaterium.....	6.8x10 <sup>8</sup> CFU/g
Bacillus Pumilus.....	1.1x10 <sup>9</sup> CFU/g
Bacillus Subtilis.....	6.8x10 <sup>8</sup> CFU/g
Trichoderma Harzianum.....	4.5x10 <sup>5</sup> CFU/g
Methylobacterium gregans.....	1x10 <sup>9</sup> CFU/g

### DIRECTIONS FOR USE & RECOMMENDED USE RATE

Once ready to plant, remove the safety clips from the BIO-CAPSULES. Push down on the buttons atop the pail to release the biologicals into the base. Seal the pail and shake aggressively to blend the contents. The combined products treat 50 units of corn at 80k seeds per unit.

Before each application, aggressively shake contents to ensure the correct volume is applied.

**For a single row unit planters,** use the enclosed scoop to measure out blended contents. One scoop treats 1 unit (80K seeds) corn.

**DO NOT ACTIVATE BIO-CAPSULE UNTIL READY TO USE.**

### PRODUCT AVAILABILITY

Sold in 2-pail cases to treat 100 units of corn. Each pail is capable of treating 50 units of corn

NET WEIGHT (per pail): 5.78 lbs (2.62 kg)

\*Data available for additional information

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# REVLINE

## HOPPER THROTTLE™

# CORN

### PLANTER BOX TREATMENT



## NUTRIENT & MICROBIAL PLANTER BOX DELIVERY SYSTEM

REVLINE® HOPPER THROTTLE™ CORN (RHTC) is a best-in-class 80/20 talc/graphite combination that ensures optimum performance in today's high-speed planters. It can take the place of any seed fluency agent.

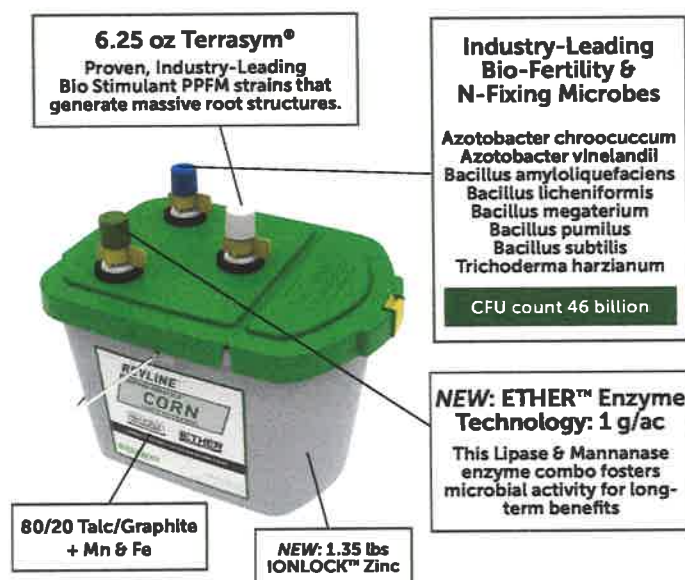
The base includes 1.35 pounds of IONLOCK™ Zinc plus Iron and Manganese. These micronutrients are essential for fast emergence and strong, healthy plants.

RHTC is powered by BIO-CAPSULE TECHNOLOGY™ - a patented delivery system that helps farmers save time, labor and fuel. The BIO-CAPSULE carrier system allows for the addition of multiple biological solutions safely packaged for convenient deployment at planting.

ETHER™ Enzyme Technology is designed to kick start the uptake of available soil nutrients and water, while maximizing microbial activity.

## PRODUCT BENEFITS

- Most convenient method to deliver a high-volume load of zinc to the furrow
- Generates massive root structure
- Increases early-season iron, manganese and zinc uptake
- Puts corn plants in the position to manage season-long stressors and optimize genetic potential



Actual product packaging may be different than this visual.

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## BASE INGREDIENTS:

80/20 TALC, GRAPHITE AND MICRONUTRIENT BLEND

## GUARANTEED ANALYSIS

Iron (Fe).....0.70%

Manganese (Mn).....0.90%

Derived from Ferrous Oxide and Manganese Oxide.

## BASE INGREDIENTS CONTAIN 27% IONLOCK™ ZINC

IONLOCK ZINC is designed to increase singulation performance, adhere microbes to seed coats, and provide valuable early emergence nutrition.

## BIO-CAPSULE INGREDIENTS:

### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Azotobacter Chroococcum.....	5.0x10 <sup>7</sup> CFU/g
Azotobacter Vinelandii.....	5.0x10 <sup>7</sup> CFU/g
Bacillus Amyloliquefaciens.....	6.8x10 <sup>8</sup> CFU/g
Bacillus Licheniformis.....	1.4x10 <sup>9</sup> CFU/g
Bacillus Megaterium.....	6.8x10 <sup>8</sup> CFU/g
Bacillus Pumilus.....	1.1x10 <sup>9</sup> CFU/g
Bacillus Subtilis.....	6.8x10 <sup>8</sup> CFU/g
Trichoderma Harzianum.....	4.5x10 <sup>5</sup> CFU/g
Mannanase.....	2.5 x 10 <sup>9</sup> µUnits/g
Lipase.....	5.0 x 10 <sup>4</sup> µUnits/g
Methylobacterium gregans.....	1x10 <sup>9</sup> CFU/g

## DIRECTIONS FOR USE & RECOMMENDED USE RATE

Once ready to plant, remove the safety clips from the BIO-CAPSULES. Push down on the buttons atop the pail to release the biologicals into the base. Seal the pail and shake aggressively to blend the contents. The combined products treat 50 units of corn at 80k seeds per unit.

Before each application, aggressively shake contents to ensure the correct volume is applied.

**For a single row unit planters,** use the enclosed scoop to measure out blended contents. One scoop treats 1 unit (80K seeds) corn.

**DO NOT ACTIVATE BIO-CAPSULE UNTIL READY TO USE.**

## PRODUCT AVAILABILITY

Sold in 2-pail cases to treat 100 units of corn. Each pail is capable of treating 50 units of corn

NET WEIGHT (per pail): 6.05 lbs (2.74 kg)

\*Data available for additional information

**MERISTEM**  
CROP PERFORMANCE



# REVLINE®

## HOPPER THROTTLE™ SOYBEAN PLANTER BOX TREATMENT

POWERED BY  
**BIO-CAPSULE  
TECHNOLOGY**  
PLANTER BOX DELIVERY SYSTEM

## NUTRIENT & MICROBIAL PLANTER BOX DELIVERY SYSTEM

REVLINE® HOPPER THROTTLE™ SOYBEAN (RHTS) is a best-in-class 80/20 talc/graphite combination that ensures optimum performance in today's high-speed planters. It can take the place of any seed fluency agent.

The base product includes Iron and Manganese—now with the added benefit of 0.43 pounds of IONLOCK™ Zinc. These micronutrients are essential for fast emergence and strong, healthy plants.

RHTS is powered by BIO-CAPSULE TECHNOLOGY™ - a patented delivery system that helps farmers save time, labor and fuel. The BIO-CAPSULE carrier system allows for the addition of multiple biological solutions safely packaged for convenient deployment at planting.

New is a mineralization microbial package to improve nutrient availability and multiple forms of Nitrogen fixing microbes to feed genetic potential in today's high-yielding soybeans.

### PRODUCT BENEFITS

- Drives early-season taproot nodulation and N-fixation
- Builds stronger, healthier plants fast & massive roots
- Puts soybeans in the position to manage season-long stressors and optimize genetic potential
- Herbicide tolerant bradyrhizobia strain (patent # 8772576)

[Ultimate coverage on every seed.]

Industry-Leading RACEREADY™  
Bradyrhizobia Inoculant

Proprietary Triple-Stack  
accelerates early-season nodulation  
for maximum nutrient uptake.

5 oz Terrasym®

Proven, Industry-Leading  
Bio Stimulant PPFM strains that  
generate massive root structures.

NEW: Industry-Leading  
Bio-Fertility &  
N-Fixing Microbes

Azospirillum brasilense  
Azospirillum lipoferum  
Azotobacter chroococcum  
Azotobacter vinelandii  
Thiobacillus ferrooxidans  
Paenibacillus azotofixans  
Bacillus amyloliquefaciens  
Bacillus licheniformis  
Bacillus megaterium  
Bacillus pumilus  
Bacillus subtilis  
Trichoderma harzianum

CFU count 38 billion

80/20 Talc/Graphite  
+ Mn & Fe

NEW: 0.43 lbs  
IONLOCK™ Zinc

Actual product packaging may be different than this visual

### BASE INGREDIENTS:

80/20 TALC, GRAPHITE AND MICRONUTRIENT BLEND

#### GUARANTEED ANALYSIS

Iron (Fe)..... 0.70%  
Manganese (Mn) ..... 0.90%  
Derived from Ferrous Oxide, Manganese Oxide, and Zinc Sulfate.

### BASE INGREDIENTS CONTAIN 10.8% IONLOCK™ ZINC

IONLOCK ZINC is designed to increase singulation performance, adhere microbes to seed coats, and provide valuable early emergence nutrition.

### BIO-CAPSULE INGREDIENTS:

#### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Bradyrhizobium japonicum.....	2.0x10 <sup>9</sup> CFU/g
Azospirillum Brasilense.....	5.0x10 <sup>7</sup> CFU/g
Azospirillum Lipoferum.....	5.0x10 <sup>7</sup> CFU/g
Azotobacter Chroococcum.....	5.0x10 <sup>7</sup> CFU/g
Azotobacter Vinelandii.....	5.0x10 <sup>7</sup> CFU/g
Thiobacillus Ferrooxidans.....	5.0x10 <sup>7</sup> CFU/g
Paenibacillus Azotofixans.....	5.0x10 <sup>7</sup> CFU/g
Bacillus Amyloliquefaciens.....	5.3x10 <sup>8</sup> CFU/g
Bacillus Licheniformis.....	1.1x10 <sup>9</sup> CFU/g
Bacillus Megaterium.....	5.3x10 <sup>8</sup> CFU/g
Bacillus Pumilus.....	8.8x10 <sup>8</sup> CFU/g
Bacillus Subtilis.....	5.3x10 <sup>8</sup> CFU/g
Trichoderma Harzianum.....	3.5x10 <sup>9</sup> CFU/g
Methylobacterium hispanicum.....	1x10 <sup>9</sup> CFU/g

### DIRECTIONS FOR USE & RECOMMENDED USE RATE

Once ready to plant, remove the safety clips from the BIO-CAPSULES. Push down on the buttons atop the pail to release the biologicals into the base. Seal the pail and shake aggressively to blend the contents. The combined products treat 40 units of soybeans at 140k seeds per unit.

Before each application, aggressively shake contents to ensure the correct volume is applied.

**For a single row unit planters:** use the enclosed scoop to measure out blended contents. One scoop treats 1 unit (140k seeds) soybeans.

**DO NOT ACTIVATE BIO-CAPSULE UNTIL READY TO USE.**

### PRODUCT AVAILABILITY

Sold in 2-pail cases to treat 80 units of soybeans. Each pail is capable of treating 40 units of soybeans.

NET WEIGHT (per pail): 4.68 lbs (2.12 kg)

\*Data available for additional information

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# REVLINE®

## HOPPER THROTTLE™ SOYBEAN PLANTER BOX TREATMENT

POWERED BY  
**BIO-CAPSULE  
TECHNOLOGY**  
PLANTER BOX INNOVATION DELIVERY SYSTEM

POWERED BY  
**ETHER**  
ENZYME TECHNOLOGY

## NUTRIENT & MICROBIAL PLANTER BOX DELIVERY SYSTEM

REVLINE® HOPPER THROTTLE™ SOYBEAN (RHTS) is a best-in-class 80/20 talc/graphite combination that ensures optimum performance in today's high-speed planters. It can take the place of any seed fluency agent.

The base product includes Iron and Manganese—now with the added benefit of 0.43 pounds of IONLOCK™ Zinc. These micronutrients are essential for fast emergence and strong, healthy plants.

RHTS is powered by BIO-CAPSULE TECHNOLOGY™ - a patented delivery system that helps farmers save time, labor and fuel. The BIO-CAPSULE carrier system allows for the addition of multiple biological solutions safely packaged for convenient deployment at planting.

New is a mineralization microbial package to improve nutrient availability and multiple forms of Nitrogen fixing microbes to feed genetic potential in today's high-yielding soybeans.

ETHER™ Enzyme Technology is designed to kick start the uptake of available soil nutrients and water, while maximizing microbial activity

### PRODUCT BENEFITS

- Drives early-season taproot nodulation and N-fixation
- Builds stronger, healthier plants fast & massive roots
- Puts soybeans in the position to manage season-long stressors and optimize genetic potential
- Herbicide tolerant bradyrhizobia strain (patent # 8772576)



Actual product packaging may be different than this visual

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### BASE INGREDIENTS:

80/20 TALC, GRAPHITE AND MICRONUTRIENT BLEND

#### GUARANTEED ANALYSIS

Iron (Fe)..... 0.70%  
Manganese (Mn) ..... 0.90%  
Derived from Ferrous Oxide, Manganese Oxide, and Zinc Sulfate.

#### BASE INGREDIENTS CONTAIN 10.8% IONLOCK™ ZINC

IONLOCK ZINC is designed to increase singulation performance, adhere microbes to seed coats, and provide valuable early emergence nutrition.

### BIO-CAPSULE INGREDIENTS:

#### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Bradyrhizobium japonicum.....	2.0x10 <sup>9</sup> CFU/g
Azospirillum Brasilense.....	5.0x10 <sup>7</sup> CFU/g
Azospirillum Lipoferum.....	5.0x10 <sup>7</sup> CFU/g
Azotobacter Chroococcum.....	5.0x10 <sup>7</sup> CFU/g
Azotobacter Vinelandii.....	5.0x10 <sup>7</sup> CFU/g
Thiobacillus Ferrooxidans.....	5.0x10 <sup>7</sup> CFU/g
Paenibacillus Azotofixans.....	5.0x10 <sup>7</sup> CFU/g
Bacillus Amyloliquefaciens.....	5.3x10 <sup>8</sup> CFU/g
Bacillus Licheniformis.....	1.1x10 <sup>9</sup> CFU/g
Bacillus Megaterium.....	5.3x10 <sup>8</sup> CFU/g
Bacillus Pumilus.....	8.8x10 <sup>8</sup> CFU/g
Bacillus Subtilis.....	5.3x10 <sup>8</sup> CFU/g
Trichoderma Harzianum.....	3.5x10 <sup>5</sup> CFU/g
Mannanase.....	2.5 x 10 <sup>9</sup> µUnits/g
Lipase.....	5.0 x 10 <sup>4</sup> µUnits/g
Methylobacterium hispanicum.....	1x10 <sup>9</sup> CFU/g

### DIRECTIONS FOR USE & RECOMMENDED USE RATE

Once ready to plant, remove the safety clips from the BIO-CAPSULES. Push down on the buttons atop the pail to release the biologicals into the base. Seal the pail and shake aggressively to blend the contents. The combined products treat 40 units of soybeans at 140k seeds per unit.

Before each application, aggressively shake contents to ensure the correct volume is applied.

**For a single row unit planters:** use the enclosed scoop to measure out blended contents. One scoop treats 1 unit (140k seeds) soybeans.

**DO NOT ACTIVATE BIO-CAPSULE UNTIL READY TO USE.**

### PRODUCT AVAILABILITY

Sold in 2-pail cases to treat 80 units of soybeans. Each pail is capable of treating 40 units of soybeans.

NET WEIGHT (per pail): 4.77 lbs (2.16 kg)

\*Data available for additional information

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**MERISTEM**  
CROP PERFORMANCE

# REVLINE™

## HOPPER THROTTLE™

# COTTON

### PLANTER BOX TREATMENT

POWERED BY

**BIO-CAPSULE TECHNOLOGY**  
PLANTER BOX CONDITIONING DELIVERY SYSTEM

POWERED BY  
**ETHER**  
ENZYME TECHNOLOGY

## NUTRIENT & MICROBIAL PLANTER BOX DELIVERY SYSTEM

REVLINE™ HOPPER THROTTLE™ COTTON is a best-in-class 80/20 talc/graphite combination that ensures optimum performance in today's high-speed planters. It can take the place of any seed fluency agent.

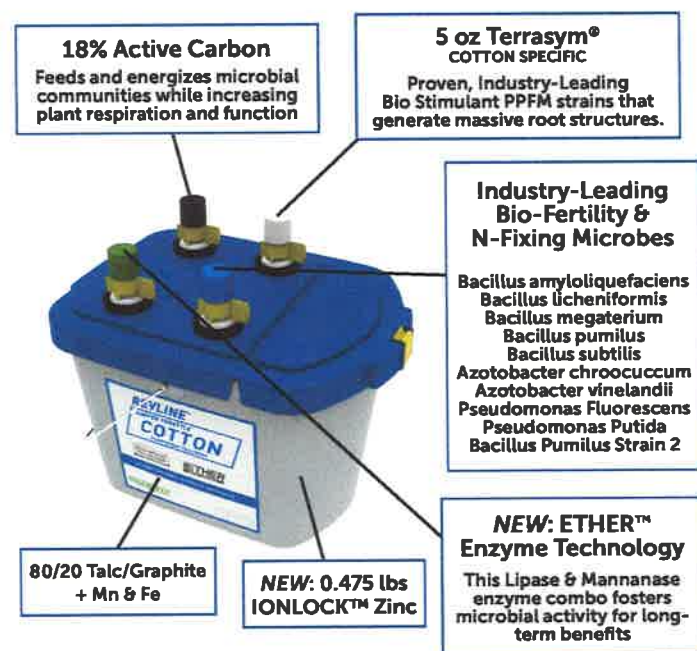
The base includes 0.475 pounds of IONLOCK™ Zinc plus Iron and Manganese. These micronutrients are essential for fast emergence and strong, healthy plants.

RHTC is powered by BIO-CAPSULE TECHNOLOGY™ - a patented delivery system that helps farmers save time, labor and fuel. The BIO-CAPSULE carrier system allows for the addition of multiple biological solutions safely packaged for convenient deployment at planting.

ETHER™ Enzyme Technology is designed to kick start the uptake of available soil nutrients and water, while maximizing microbial activity.

## PRODUCT BENEFITS

- Ensures strong stand and emergence vigor
- Enhances germination and root growth
- Increases early-season iron, manganese and zinc uptake
- Puts cotton plants in the position to manage season-long stressors and optimize genetic potential



Actual product packaging may be different than this visual

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## BASE INGREDIENTS:

80/20 TALC, GRAPHITE AND MICRONUTRIENT BLEND

## GUARANTEED ANALYSIS

Iron (Fe).....0.70%

Manganese (Mn) .....0.90%

*Derived from Ferrous Oxide and Manganese Oxide.*

## BASE INGREDIENTS CONTAIN 27% IONLOCK™ ZINC

IONLOCK ZINC is designed to increase singulation performance, adhere microbes to seed coats, and provide valuable early emergence nutrition.

## BIO-CAPSULE INGREDIENTS:

### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Bacillus Amylolyquefaciens.....	4.50x10 <sup>8</sup> CFU/g
Bacillus Licheniformis.....	9.00x10 <sup>8</sup> CFU/g
Bacillus Megaterium.....	4.50x10 <sup>8</sup> CFU/g
Bacillus Pumilus.....	7.50x10 <sup>8</sup> CFU/g
Bacillus Subtilis.....	4.50x10 <sup>8</sup> CFU/g
Azotobacter Chroococcum.....	5.00x10 <sup>7</sup> CFU/g
Azotobacter Vinelandii.....	5.00x10 <sup>7</sup> CFU/g
Pseudomonas Fluorescens.....	5.00x10 <sup>8</sup> CFU/g
Pseudomonas Putida.....	5.00x10 <sup>8</sup> CFU/g
Bacillus Pumilus Strain 2.....	5.00x10 <sup>9</sup> CFU/g
Mannanase.....	2.5 x 10 <sup>9</sup> µUnits/g
Lipase.....	5.0 x 10 <sup>4</sup> µUnits/g
Methylobacterium hispanicum.....	1x10 <sup>9</sup> CFU/g
Active Carbon.....	18%

## DIRECTIONS FOR USE & RECOMMENDED USE RATE

Once ready to plant, remove the safety clips from the BIO-CAPSULES. Push down on the buttons atop the pail to release the biologicals into the base. Seal the pail and shake aggressively to blend the contents. The combined products treat 20 units of cotton at 240k seeds per unit.

Before each application, aggressively shake contents to ensure the correct volume is applied.

**For a single row unit planters,** use the enclosed scoop to measure out blended contents. One scoop treats 1 unit (240K seeds) cotton.

**DO NOT ACTIVATE BIO-CAPSULE UNTIL READY TO USE.**

## PRODUCT AVAILABILITY

Sold in 2-pail cases to treat 40 units of cotton. Each pail is capable of treating 20 units of corn

NET WEIGHT (per pail): 3.44 lbs (1.56 kg)

\*Data available for additional information

**MERISTEM**  
CROP PERFORMANCE







NORTH DELTA BIOLOGICALS

# STRATEGY

FOR PEANUTS

POWERED BY

**BIO-CAPSULE  
TECHNOLOGY**

**NUTRIENT & MICROBIAL  
PLANTER BOX DELIVERY SYSTEM**

NDB STRATEGY PEANUT is a best-in-class 80/20 talc/graphite combination that ensures optimum performance in high-speed planters. It can take the place of any seed fluency agent.

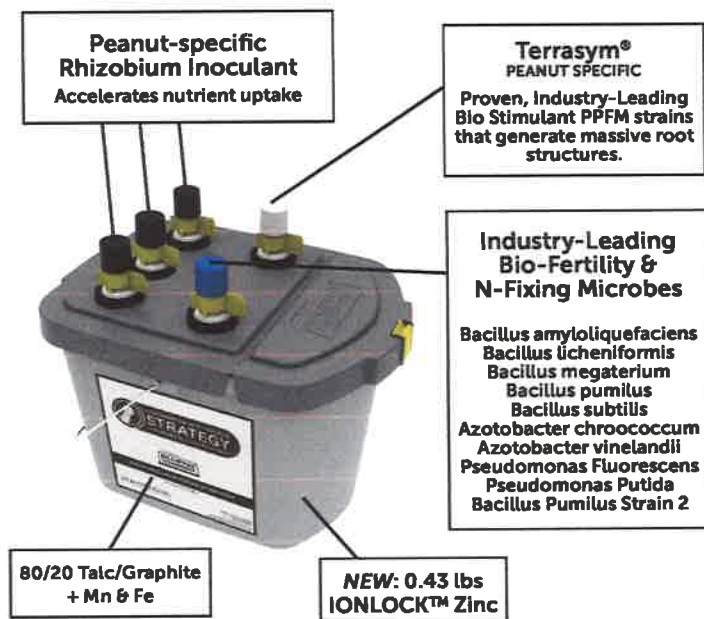
The base includes 0.43 pounds of IONLOCK™ Zinc plus Iron and Manganese. These micronutrients are essential for fast emergence and strong, healthy plants.

STRATEGY is powered by BIO-CAPSULE TECHNOLOGY™ - a patented delivery system that helps farmers save time, labor and fuel. BIO-CAPSULE allows for the addition of multiple biological solutions safely packaged for convenient deployment at planting.

## PRODUCT BENEFITS

- Increases seed germination for strong stand
- Maximizes pegging for increased yield potential
- Activates soil nutrient uptake
- Synthesizes natural plant hormones
- Season-long endophytic organism that does not fall off when pegging and seed development occurs
- Improves seed grade for higher bases

[Ultimate coverage on every seed.]



Actual product packaging may be different than this visual

## BASE INGREDIENTS:

80/20 TALC, GRAPHITE AND MICRONUTRIENT BLEND

### GUARANTEED ANALYSIS

Iron (Fe).....	0.70%
Manganese (Mn) .....	0.90%
Zinc (Zn).....	1.58%

*Derived from Ferrous Oxide, Manganese Oxide and Zinc Sulfate.*

## BIO-CAPSULE INGREDIENTS:

### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Rhizobium .....	2x10 <sup>5</sup> CFU/g
Azotobacter chroococcum.....	5.0x10 <sup>7</sup> CFU/g
Azotobacter vinelandii .....	5.0x10 <sup>7</sup> CFU/g
Bacillus amyloliquefaciens .....	4.5x10 <sup>9</sup> CFU/g
Bacillus licheniformis.....	9.0x10 <sup>9</sup> CFU/g
Bacillus megaterium .....	4.0x10 <sup>9</sup> CFU/g
Bacillus pumilus.....	5.8x10 <sup>10</sup> CFU/g
Bacillus subtilis.....	4.5x10 <sup>9</sup> CFU/g
Pseudomonas putida .....	5.0x10 <sup>8</sup> CFU/g
Pseudomonas fluorescens.....	5.0x10 <sup>8</sup> CFU/g
Trichoderma harzianum .....	3.0x10 <sup>6</sup> CFU/g
Methylobacterium radiotolerans.....	1x10 <sup>9</sup> CFU/g

## DIRECTIONS FOR USE & RECOMMENDED USE RATE

Once ready to plant, remove the safety clips from the BIO-CAPSULES. Push down on the buttons atop the pail to release the biologicals into the base. Seal the pail and shake aggressively to blend the contents. The combined products (1 pail) treat 40 acres of peanuts at 160 lbs per acre.

Before each application, aggressively shake contents to ensure the correct volume is applied.

**For a single row unit planters**, use the enclosed scoop to measure out blended contents. One scoop treats 1 unit (160 lbs of seed) peanuts.

**DO NOT ACTIVATE BIO-CAPSULE UNTIL READY TO USE.**

## PRODUCT AVAILABILITY

Sold in 2-pail cases to treat 12,800 lbs of peanut seed. Each pail is capable of treating 6,400 lbs of peanut seed.

NET WEIGHT (per pail): 6.57 lbs (2.98 kg)

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