

Enriched Urea Fertilizers



Development Objectives



Efficient and environmentally friendly fertilizer solutions.



Multiple options of Urea based fertilizers considering both crop and soil needs.



SABIC Stabilized Urea

- Reduced Nitrogen loss to Ammonia volatilization.
- Improved Nitrogen Use Efficiency.

SABIC Zinc Coated Urea

- Bio-available Zinc.
- Alleviate soil Zinc deficiency..

SABIC Humic Acid Coated Urea

- Improved crop and soil health.
- Enhanced Nutrient Use Efficiency.

SABIC Bio-Enhanced Urea

- Combining targeted Biology with Chemistry.
- Supports the growth of beneficial native soil microorganisms.



01 SABIC Stabilized Urea

DESCRIPTION:

SABIC Stabilized Urea, with two urease inhibitors, is a new solution from SABIC Agri-Nutrients, created to reduce the risk of Nitrogen loss due to Volatilization. SABIC Stabilized Urea has two urease inhibitors. Together they are more effective on the range of soil urease enzymes than a single inhibitor and capable of reducing Nitrogen volatilization losses by up to 60-70%. Greater urea protection leads to improved nitrogen availability during critical crop-growth stages for more consistent yields.

TYPICAL APPLICATIONS:

SABIC Stabilized Urea has physical properties similar to Granular Urea and is likewise suitable for all types of applications and conditions. Maximum benefit from reduced Nitrogen volatilization is obtained when SABIC Stabilized Urea is surface applied by broadcasting or top-dressed. For optimal performance, it is not recommended to mix SABIC Stabilized Urea with phosphate fertilizers.

TYPICAL PROPERTY VALUES:

Nitrogen

46.0_{Min}

Units : Wt. %

Moisture

0.50_{Max}

Units : Wt. %

Biuret

1.00_{Max}

Units : Wt. %

Particle size 2-4 mm

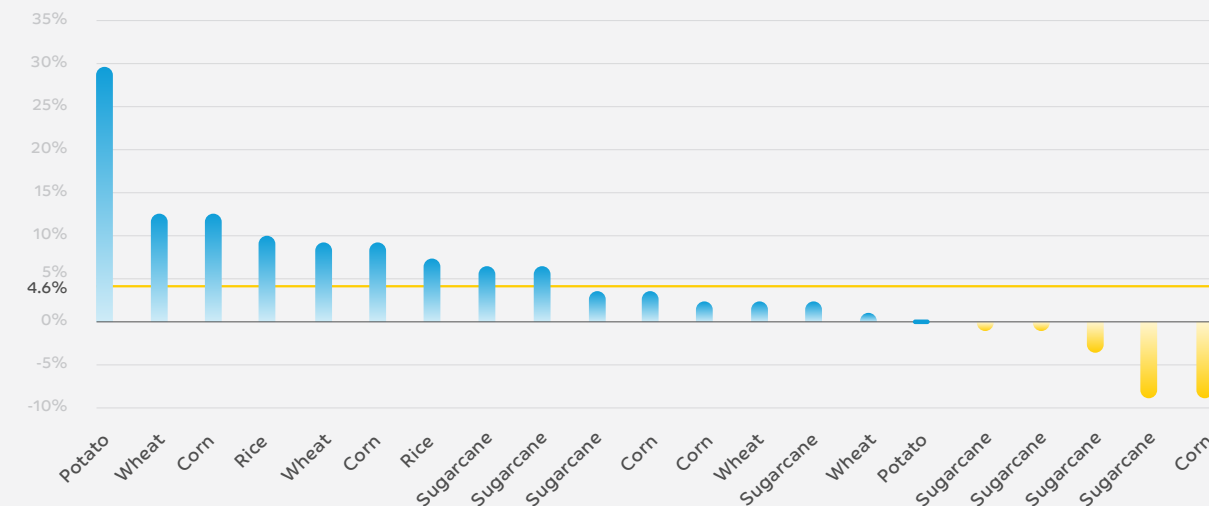
90_{Min}

Units : Wt. %

Color

Light Yellow Granules

SUMMARY OF FIELD TRIALS RESULTS IN MULTIPLE CROPS AND REGIONS:



Average
yield
increase
4.6%

VALUE PROPOSITIONS:

1

Feed Your Crop, Not the Air.

SABIC Stabilized Urea can reduce ammonia volatilization loss by 60 - 70% compared to urea alone, keeping Nitrogen where it should be, available to the plant.

2

Double Shield. Maximum Uptake.

Dual (NBPT- NPPT) urease inhibitor technology protects against a wider range of naturally occurring urease enzymes in the soil providing even greater protection against volatilization losses.

3

Grow More. Waste Less.

Reduced nitrogen loss typically means bigger harvests with less potential for environmental concerns. Good for farmers and great for nature.

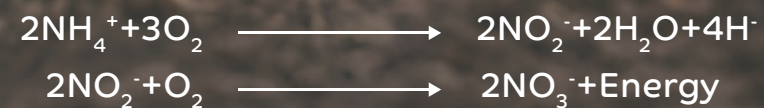
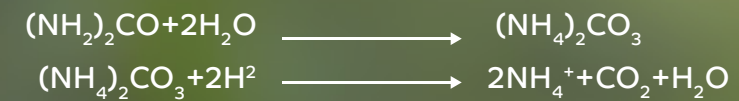
4

Excellent shelf life and Ready to Use.

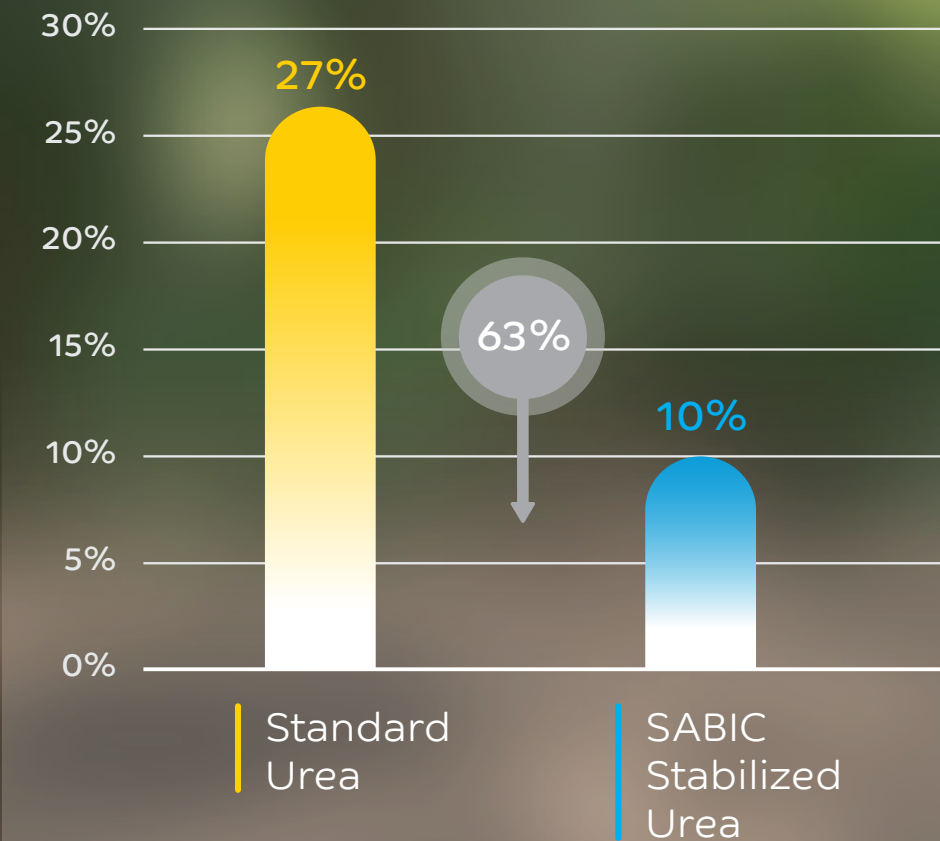
SABIC Stabilized Urea is readymade for direct use with a similar ease of application as Urea and stays effective in storage for up to 12 months..

UREA UNDERGOES A SERIES OF BIOLOGICAL, CHEMICAL AND PHYSICAL TRANSFORMATIONS.

Nitrogen not absorbed by the plant is at risk to being lost by two pathways:



NH₃ Loss %



SABIC Stabilized Urea achieved a 63% reduction in Ammonia volatilization compared to Standard Urea.

02 SABIC Zinc Coated Urea

DESCRIPTION:

SABIC Zinc Coated Urea is specifically designed to address Zinc deficiency across all soil types. As part of the SABIC Agri-Nutrients Enriched Urea product portfolio, SABIC Agri-Nutrients has developed a formulation where Zinc is in a more readily available form to the plant. This new formulation also avoids precipitation with other major nutrients.

TYPICAL APPLICATIONS:

SABIC Zinc Coated Urea is an efficient way to address Zinc deficiency in the soil. SABIC Zinc Coated urea assists to activate the synergistic principle between nitrogen and zinc to enable roots to absorb Nitrogen, Iron, Copper, Manganese, magnesium, and calcium simultaneously.

It is suitable for all kinds of soils, different application methods, a wide variety of crops under a wide range of environmental conditions.

TYPICAL PROPERTY VALUES:

Nitrogen
46.0Min
Units: Wt.%

Moisture
0.50Max
Units: Wt.%

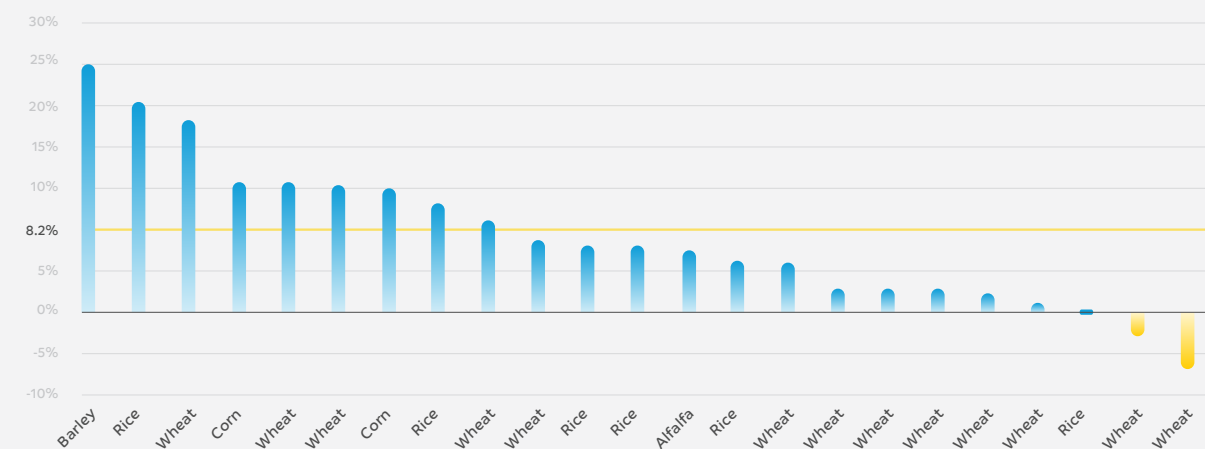
Zinc as Zn
1000Min
Units :mg/kg

Biuret
1.00Max
Units: Wt.%

Particle size 2-4 mm
90Min
Units: Wt.%

Color
Light Pink
Granules

SUMMARY OF FIELD TRIALS RESULTS IN MULTIPLE CROPS AND REGIONS:



Average
yield
increase
8.2%

VALUE PROPOSITIONS:

1

Two Forms, One Purpose.

Zinc is available in both the organic chelated and the inorganic forms for maximum efficiency and release rate pattern.

2

Maximum Available, Minimum dosage.

Organic chelated Zinc is 100% Bio-Available to ensure ready and complete absorption by crops.

3

Micron Size, Macro Impact.

Specially micronized inorganic Zinc provides for enhanced Zinc availability of this component.

4

Smarter Synergy, Stronger Growth.

Nitrogen – Zinc Synergistic uptake boosts nutrients utilization to enhance crop yield and quality.

5

Easy to Blend, Easy to Use.

Seamlessly integrates into fertilizer blend, just like regular Urea.



03 SABIC Humic Acid Coated Urea

DESCRIPTION:

SABIC Humic Acid Coated Urea, enriched with the advantages of high-quality Bio-Stimulants such as Humic Acids, Fulvic acids and Seaweed extracts, presents a more efficient form of Nitrogen fertilizer.

TYPICAL APPLICATIONS:

Bio-Stimulant substances are well-known for their beneficial effects on soil and plant health. SABIC Humic Acid Coated Urea is 100% soluble and can be used for soil application or by fertigation. It is suitable for different soil types and It can be used in planting fertilizer blends or in top dressing. SABIC Humic Acid Coated Urea is suitable for a wide range of crops.

TYPICAL PROPERTY VALUES:

Nitrogen

45.7_{Min}

Units: Wt. %

Biuret

1.00_{Max}

Units: Wt. %

Moisture

0.50_{Max}

Units: Wt. %

Particle size 2-4 mm

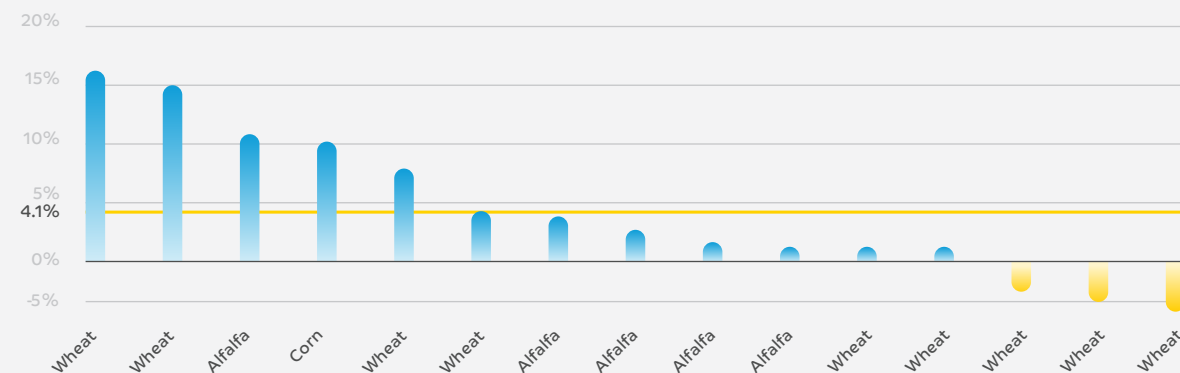
90_{Min}

Units: Wt. %

Color

Light Brown Granules

SUMMARY OF FIELD TRIALS RESULTS IN MULTIPLE CROPS AND REGIONS:



Average
yield
increase
4.1%

VALUE PROPOSITIONS:

1

Healthy Soils, Resilient Crops.

Improves soil and plant health, enhancing stress tolerance and yield potential.

2

Effective Nutrition, Enhanced Metabolism.

SABIC Humic Acid Coated Urea introduces high-quality bio-stimulants as a coating on Urea granules to boost plant metabolism and crop health.

3

Better uptake, Higher Yields.

Boosts nutrients uptake for enhanced efficiency and stronger growth.

4

Less Lock-up, More Availability.

Reduces nutrient (e.g. Phosphate) fixation in soil, keeping nutrients readily available for plants.

5

Easy to Blend, Easy to Use.

Seamlessly integrates into fertilizer blends, just like regular urea.



04 SABIC Bio-Enhanced Urea

DESCRIPTION:

SABIC Bio-Enhanced Urea is a new product developed by SABIC Agri-Nutrients with BiOWiSH®' proprietary microbial solution coated onto Granular Urea to create an enhanced efficiency fertilizer. The new alliance between plant and microbe has a combined genetic profile that enhances native microbial activity in the soil, promotes soil quality, and supports the plant's natural ability to resist environmental stress. This optimizes crop yield potential by increasing nutrient availability and improving soil productivity and plant vigor.

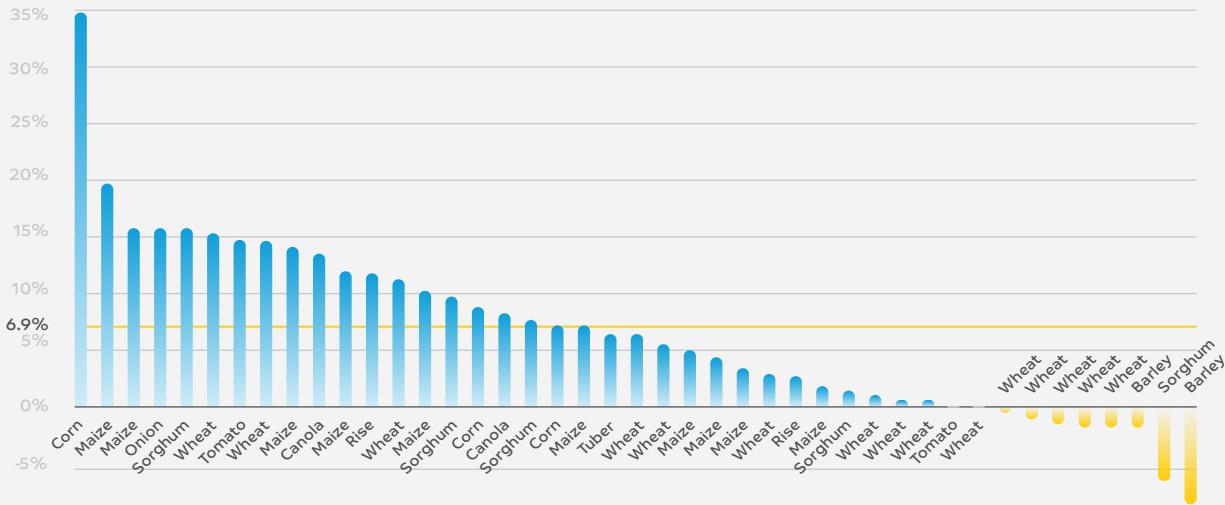
TYPICAL APPLICATIONS:

SABIC Bio-Enhanced Urea can be used by incorporating into the soil or surface applied, at or near planting, side-dressed, or top-dressed. It is suitable for a wide variety of crops across a wide range of soil and environmental conditions.

TYPICAL PROPERTY VALUES:

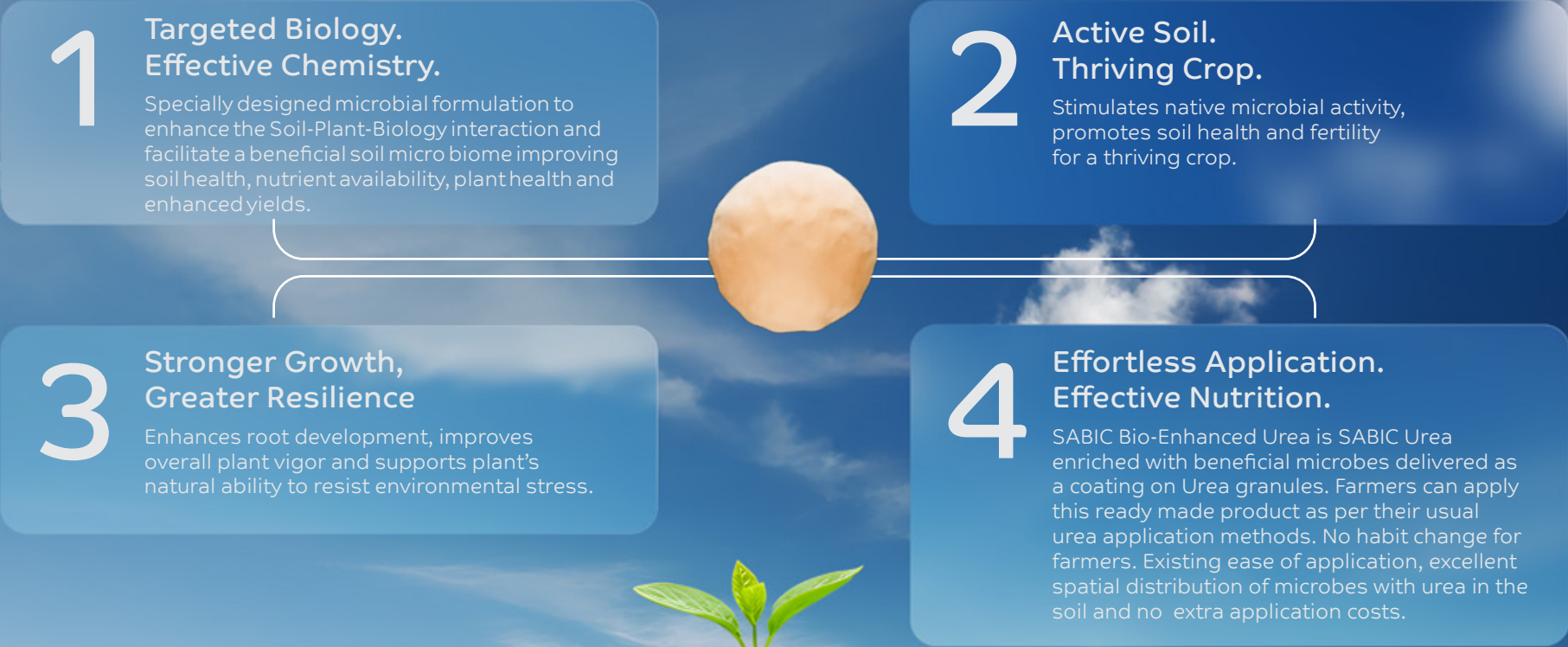
Nitrogen 46.0 _{Min} Units: Wt. %	Biuret 1.00 _{Max} Units: Wt. %
Moisture 0.50 _{Max} Units: Wt. %	Particle size 2-4 mm 90 _{Min} Units: Wt. %
Microbial Activates >1x10⁶ Units : CFU/g	Color Light Orange Granules

SUMMARY OF FIELD TRIALS RESULTS IN MULTIPLE CROPS AND REGIONS:



Average yield increase
6.9%

VALUE PROPOSITIONS:



Powering crops, feeding the world

our enriched urea fertilizers deliver higher yields for a sustainable future.

For More Information
Please Scan Here



