

B-Star

INORGANIC NITROGEN TOP DRESSING FERTILIZERS
 ENRICHED WITH PHOSPHORUS, POTASSIUM, MAGNESIUM & TRACE ELEMENTS
 CONTROLLED RELEASE (CRF), WITH NITRIFICATION INHIBITORS

Instead Urea

30-2-2 +2MgO +T.E.

30-2-2 +2MgO +2Zn +T.E.

Instead Ammonium Sulfate
 Instead Ammonium Nitrate

20-2-2 +MgO +3CaO +T.E.

20-2-2 +MgO +Fe + T.E.

20-2-2 +MgO +Zn +T.E.

20-2-0 +MgO +3CaO + T.E.

20-2-0+MgO +Fe +T.E.

The Ammonium Nitrate,

- » Contains **50% of unprocessed Nitric Nitrogen**, which **action is running out** within a time of **2 days**. Nitric Nitrogen is not retained in the soil, and it is washed away by rainwater or irrigation, polluting the groundwaters. **The small percentage that is absorbed by plants, causes** rapid "watery" vegetation, creates susceptibility to fungal diseases, causes fruit deformation, delays the production, causes flower fall, reduces the percentage of Phosphorus, Potassium, Calcium, Magnesium in the plant, causing a dry tip to fruits and reduces the quality and time of fruit preservation.
- » The remaining **50% Nitrogen**, which is in **Ammoniac Nitrogen**, **acts within a time of 2-14 days** depending on the soil structure, until it is converted to Nitric Nitrogen and get lost. **It contains no other nutrients**. It offers only half the Nitrogen -of the Nitrogen that you pay for- which is also available in the plant for only a few days.

The Ammonium Sulfate,

Contains **unprocessed Ammoniac Nitrogen**, which action **finishes** within a very short period of **2-15 days** depending on the soil structure, until it is converted to Nitric Nitrogen and get lost. **It contains no other nutrients**.

B-STAR are superior to 3 key points:

- ✓ They offer **NITROGEN plus ALL** the other nutrient main elements (P, K, Mg, Ca) & trace elements (B, Cu, Fe, Mn, Zn), in ideal forms and quantities.
- ✓ They offer **assimilable Nitrogen** to plants in a **stable Nitrogen ratio**, so that they do not face **nitrogen deficiency** and do not get open to **high nitrification peaks** that result **undesirable overgrowths**.
- ✓ They are **CONDENSED, TOTALLY ASSIMILABLE** by the plant and are required in **smaller quantities**, because all of their nutrients are utilized by the plant, with **CONTROLLED RELEASE TECHNOLOGY**.



TOP-DRESSING B-StaR FERTILIZERS CONTAIN

B-StaR are **Full Top-Dressing Controlled & Sequential Nitrogen Release Fertilizers**, which contain additional **Phosphorus (P)**, **Potassium (K)**, **Magnesium (Mg)** and **Calcium (Ca)**, and **Zinc (Zn)** or **Iron (Fe)** and SET OF **7 TRACE ELEMENTS**: Boron (B), Cobalt (Co), Copper (Cu), Iron (Fe), Manganese (Mn), Molybdenum (Mo), Zinc (Zn), whose presence is necessary for the proper nourishment of plants.

B-StaR ACTION

N Nitrogen in these fertilizers is in **Nitric** and **Ammoniac** or **Amide form, Controlled Release** (Stable form) as it is enriched with **Inhibitors of Nitrogen Releasing**.

The **Inhibitors** that exist in **B-StaR** fertilizers, inhibit the action of nitrifying micro-organisms, (nitrosomonas, nitrobacter) and thus Nitrogen nitrification is prolonged from 2-15 days in common Nitrogen fertilizers (in temperatures 12-16° C), up to **60 days**. By this way, they **cover plant's needs in nitrogen during the whole critical stage of growth and fruition**.

Mg Magnesium is in form of **hydroxide** and is **steadily given to plants for a long period of time, without being washed away** like Magnesium Sulphate or not assimilated like Magnesium Carbonate.

Zn Zinc is in **2 forms: 50% Sulfuric form**, so it can be directly available and **50% Oxide form**, which is broken down slowly and steadily to meet all plant needs, throughout the growing and fruiting period **without creating toxicities**.

APPLICATION

On the soil's surface **after sowing and plant's first leaves development**, or for the tree cultivations during **spring - summer** (on their fruit formation stage).

Dosage:

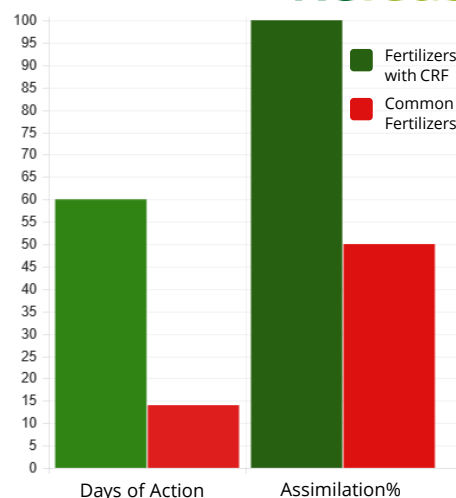
The application quantity is determined based on soil deficiencies, type and stage of growth of the cultivation. General dosage: **50-250kg / Hectare** or **5-25 kg/1000 m²**

CRF TECHNOLOGY

Controlled Release

ADVANTAGES

- 1. 3 forms of Nitrogen.** (Ammoniac, Nitrate, Amide)
- 2. Prolonged action.** Action starts from the moment of application and is prolonged for a long time.
- 3. Does not get bound.** It doesn't get bound and remains available for use when needed.
- 4. It does not affect the pH.** Since it does not have an acidic effect such as nitrification of ammonia and urea, or such as the the absorption of ammonium ions directly from the root system.



THE WINNER IN PERFORMANCE

Controlled Release Technology® enables the farmer to plan the supply of nitrogen to the cultivation with smaller and more frequent applications, ensures total control of plant's growth with the minimum possible cost and provides best results.