

# Technology for crop protection in cereal crops by Corteva Agriscience™ with new products for 2022

*Author(s):* Corteva Agriscience™

*Date:* 22.01.2022 *Issue:* 1/2022

The advertisement features a purple and blue background. In the top left, the word "Иновор" is written in white with a registered trademark symbol and an asterisk. Below it, the word "ФУНГИЦИД" is written in white on a pinkish-purple banner. In the top right, a red starburst contains the word "НОВ!". At the bottom, the text "СТЪПКА НАГОРЕ В ЗАЩИТАТА" is written in large white letters. There are also navigation arrows on the right side.

**New, New, New!!!** Yes, as every year, in 2022 Corteva agriscience™ will implement innovations by expanding its portfolio with new products.

Once again, the **Corteva** portfolio provides fungicides and herbicides that build on existing solutions with their qualities and advantages.

In 2022 Bulgarian farmers will be able to use two new fungicides in cereal crops, which will add value in the control of economically important diseases.

What are these fungicides and how will they differ from those currently on the market?

**Inovor®\* - The next level of disease protection**

**Иновор®\*** **НОВ!**

**ФУНГИЦИД**

**СТЪПКА НАГОРЕ  
В ЗАЩИТАТА  
ОТ БОЛЕСТИ**

**Формулация**

**ПИРАКЛОСТРОБИН**  
Стробилурин - F500

**200 г/л**

**ФЛУКСАПИРОКСАД**  
SDHI - Xemium®

**30 г/л**

Отлична мобилност и защита на новия прираст

Сигурен начин на действие

Синергизъм между активните вещества

Широк прозорец на приложение

Продължителна защита

По-добра устойчивост на стресови фактори

\* Иновор® е продукт и регистрирана търговска марка на BASF, дистрибутиран от Corteva® Agriscience.

**Inovor®\*** contains two active substances - pyraclostrobin and fluxapyroxad. This fungicidal combination, through its preventive action, protects against the penetration of pathogens into plant tissues; through its stopping action, it destroys already developed spores; through its curative action, it blocks the development of fungal pathogens and stops the growth of hyphae that have already penetrated the plant tissues.

**Inovor®\*** has long-lasting preventive and curative activity, a powerful physiological effect and binds firmly to the treated surface.

**Inovor®\*** provides impeccable control of Septoria species, brown rust, net blotch, leaf blight, Drechslera, powdery mildew, with a recommended application rate of - T1 – 75 ml/da and T2 – 90 ml/da. **Inovor®\*** is most suitably applied preventively in the first fungicide treatment T1 in cereal crops, providing a long period of crop protection against all economically important diseases, and at a good price. In addition, the additional physiological effect that **Inovor®\*** possesses helps the crop to cope with abiotic stress, which, in a dry spring and large temperature amplitudes, burdens the crop in critical phases when the generative organs are formed and the future yield is determined.

**Univoq® - Out-of-this-world protection**

Унивок®

Inatreq™ active

ФУНГИЦИД

„Извънземна“  
защита от болести

НОВ!






**КУЛТУРА**

ПШЕНИЦА  
РЪЖ, ЕЧЕМИК\*

---



**БОЛЕСТИ**

БРАШНЕСТА МАНА,  
СЕПТОРИЯ ПО КЛАСА,  
СЕПТОРИЯ ПО ЛИСТАТА, ФУЗАРИУМ,  
ЖЪЛТОКАФЯВИ ПЕТНА,  
БАЗИЧНО ГНИЕНЕ, КАФЯВА РЪЖДА,  
ЖЪЛТА РЪЖДА, СНЕЖНА ПЛЕСЕН,  
РАНЕН ЛИСТЕН ПРИГОР,  
ВИДОВЕ HELMINTHOSPORIUM

---



**ДОЗА**

T1 120 мл/дка  
T2 130 мл/дка  
T3 130 - 150 мл/дка

---



**МОМЕНТ НА ПРИЛОЖЕНИЕ**

T1 ЗАЕДНО С ХЕРБИЦИДА  
T2 ОТ ПОЯВА НА ФЛАГОВ ЛИСТ  
T3 ПО ВРЕМЕ НА ЦЪФТЕЖ, В  
ЗАВИСИМОСТ ОТ ИНФЕКЦИОЗНИЯ  
ФОН ОТ ФУЗАРИУМ

---



**ФОРМУЛАЦИЯ:**

ЕК

**Univoq®** is a fungicide that has exceptional preventive, stopping and curative activity against all economically important diseases in cereal crops. It is a two-component fungicide containing prothioconazole, which is one of the newest triazoles, with systemic, eradivative and preventive action, targeted at the control of diseases in cereals, including rust species, leaf spots and Fusarium, and the completely new active substance **Inatreq™ active** from a new chemical group and with a new mode of action against a broad spectrum of diseases, whose most significant advantage is that it is the new benchmark against Septoria species and a tool in the fight against resistance in this pathogen. The active ingredients in **Univoq®** complement each other in a so-called synergistic effect, which gives farmers a new tool for the control of all diseases in cereal crops.

After treatment, **Univoq®** penetrates the leaf tissue and remains in active form for more than 30 days; upon contact with the pathogen, it activates its fungicidal action (**curative action**).

Deposits after treatment on plant parts act as a reservoir for **Univoq®**, becoming activated upon contact with germinating spores (**preventive action**).

In the presence of germinated spores, **Univoq®** penetrates the tissues and acts as an inhibitor of mitochondrial respiration in fungal cells; by blocking electron transfer, growth is inhibited and the fungi die (**stopping action**).

**Univoq®** provides excellent duration of protection, sufficient to protect crops even under the highest infection pressure, combined with a physiological effect expressed in stimulation of photosynthesis, blocking of the hormone ethylene, which is formed in the crop under stress conditions, and stimulation of root formation; based on all this, it helps the crop to realize its maximum yield potential and achieve high grain quality parameters. Trials in Europe and Bulgaria have shown excellent control of powdery mildew, Fusarium, foot rot, brown rust, yellow rust, snow mould, early leaf blight and Septoria. **Univoq®** is applied at a flexible rate depending on the timing of application, as follows: T1 – 120 ml/da; T2 – 130 ml/da and T3 for protection against Fusarium at a rate of 130 to 150 ml/da.

To extract the maximum benefits provided by **Univoq®**, it is most appropriate to apply it in the T2 fungicide treatment, especially under high infection pressure from Septoria and rust species. In case of high risk of Fusarium on the ear, **Univoq®** also provides impeccable control of the disease when applied at T3 during flowering.

For the 2022 season, **Inovor®\*** and **Univoq®** will be offered in a package application with the proven herbicide **Derby® Super One**. This package will combine the classic solution in the control of broadleaf weeds with innovations in fungicides, and at a better price.

*Inovor™\* is a product and a registered trademark of BASF, distributed by Corteva Agriscience™*