



## Stamina® F4 Cereals

Seed Treatment



We create chemistry

### Start Fast, Finish Strong

#### Protection from the Start

In order to maximize yield potential and maintain healthy crops, you need a seed treatment that works as hard as you do. Seeds need protection as soon as they hit the soil, especially during critical early crop development stages.

#### Plant Earlier for Higher Yields

Stamina® F4 Cereals seed treatment is the seed applied fungicide that offers industry- leading, 4 mode-of-action, broad-spectrum disease control with the plant health benefits of F500® fungicide, while providing for the addition of insecticide where needed for maximum flexibility.

The formula protects and controls disease for the growing seedling, allowing you to plant earlier, maximize your yield potential and maintain a healthy harvest.



#### PROTECTION

- Broad spectrum – 4 modes of action in one formulation, including Xenium® fungicide
- Protects your seed investment while providing an earlier growing window
- Enhanced Fusarium and *Rhizoctonia solani* control

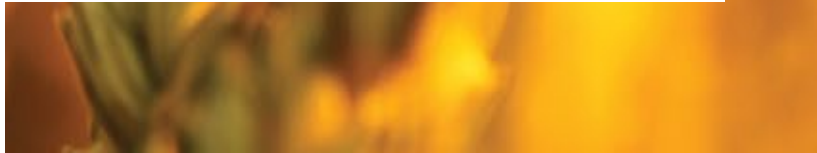
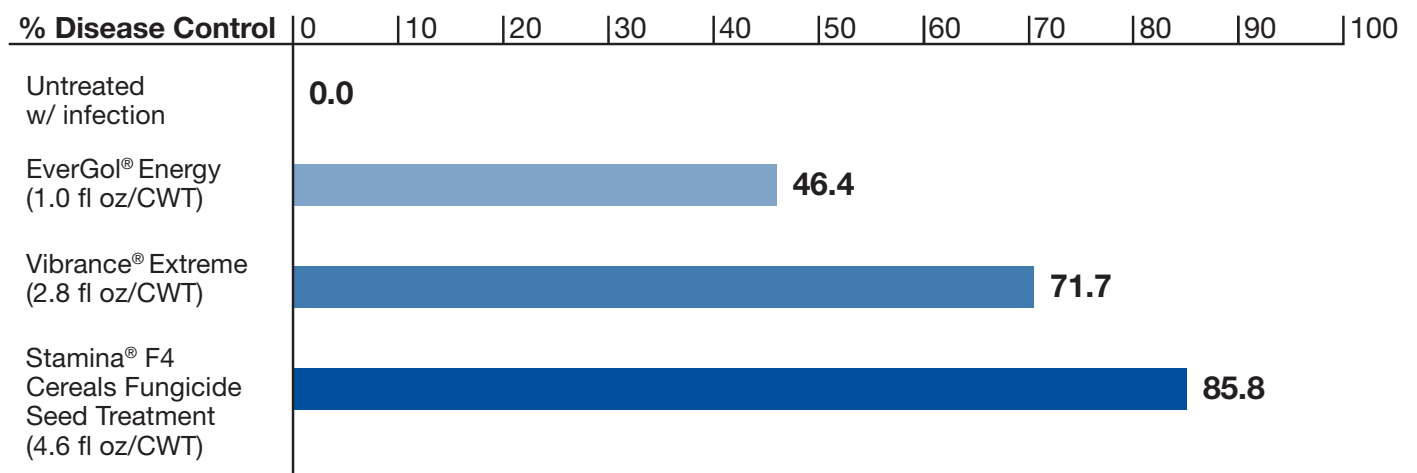
#### VITALITY

- F500® fungicide molecule provides plant health benefits, in addition to disease control, like cold tolerance, stress tolerance, and early vigor
- Faster and more consistent germination and seedling emergence under certain cold conditions

#### PERFORMANCE

- Provides flexibility to add insecticide when/where needed
- Improved field stand and higher yield potential
- Lower freeze point for cold weather application

### Longer Term Control of *Fusarium graminearum* in Wheat. 28 Days after Planting.



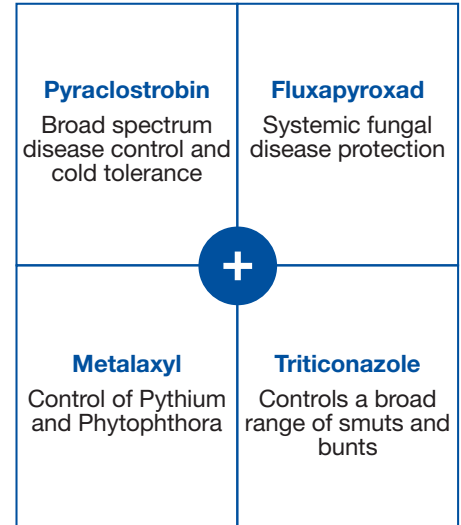
## Take Back Control

As your farm size has increased and the need to maximize profits is as great as ever, you are often planting earlier in the season, even if conditions are less than ideal for seedling emergence. In addition, minimum tillage increases debris on the soil surface. This growing environment is more conducive for the development of soil pathogens.

Once the soil begins to warm up, it does so more slowly and moisture is retained in the soil. This moisture leads to the slower development of the seedling and this opens it to greater vulnerability.

The lesson is simple: planting seeds earlier means you need more protection. Once the seed is in the ground, the only control you have is your seed treatment. Stamina® F4 Cereals seed treatment gives you the protection you need in order to maximize your harvest potential. Designed with an easy-to-use formulation for on-farm or commercial application, Stamina® F4 Cereals seed treatment works on wheat, barley, oats, triticale and rye.

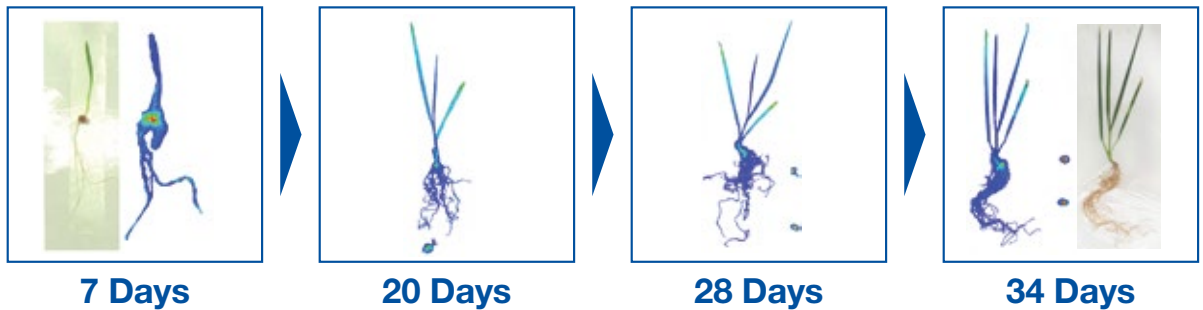
## 4-Way Disease Protection



## Formulated with Xemium® Fungicide for Unsurpassed Rhizoctonia Control

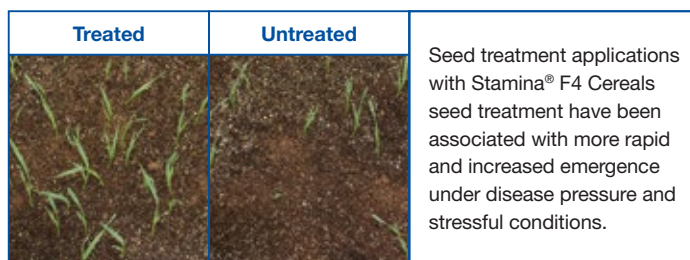
- Xemium® Fungicide exhibits unique plant mobility and translocation characteristics, enabling it to spread throughout the entire seedling, roots and shoots
- Plant wide distribution ensures protection right from initial developmental stages, providing reliable, consistent disease control
- Contributes to a better plant stand, which is the foundation for a healthier crop and yield potential

## Xemium® Systemicity for Enhanced Disease Control



Radiolabeled Xemium®, shown to translocate from the seed throughout the seedling, providing continuous, consistent disease control. BASF Internal Study. Germany 2012.

## Increased Cold Emergence and Vigor



2017 Greenhouse Demo. Plants kept in saturated 10°C for 7 Days; Stamina® F4 Cereals Seed Treatment, 4.6 fl oz/CWT

- | Target Diseases                         |                                 |
|---|---------------------------------|
| • Common root rot                       | • Rhizoctonia root rot          |
| • Covered smut                          | • Loose smut                    |
| • Dry seed decay                        | • True loose smut               |
| • False loose smut                      | • Common bunt                   |
| • Fusarium seed rot and seedling blight | • Flag smut                     |
| • Pythium damping off                   | • Fusarium crown and root rot** |
|   | **Suppression only              |

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