

# AZOXY GUARD XTRA<sup>®</sup>

## Fungicide

AzoxyGuard Xtra is a new Conquest cereal fungicide that contains 200 g/L of azoxystrobin (Group 11) and 80 g/L of cyproconazole (Group 3) and complements our extensive range of foliar fungicides.

This type of co-formulation fungicide has been used by Australian cereal growers for many years, and for good reason. AzoxyGuard Xtra offers protection against Leaf Rust, Spot Type Net Blotch, Net Type Net Blotch and Powdery Mildew in barley.

AzoxyGuard Xtra keeps the “money leaves” disease free for longer, maximising grain fill and quality.

### **Key Benefits**

- Provides long-lasting foliar protection
- Contains a full dose of a strobilurin active ingredient
- Stops diseases before they attack plants to maximise crop yield – unlike straight triazole fungicides
- Cyproconazole offers the fastest moving foliar curative activity on Rusts and Powdery Mildew
- The two modes of actions offer protection against all key stages of disease development
- Rainfast within two hours of application
- Compatible with many pesticides.

In order to get the most out of AzoxyGuard Xtra, it is important to understand how it works differently compared to triazole products such as Stingray® 430 or Prestige® 550. Strobilurin chemistry is designed to provide a protectant shield around the outside of the leaf to stop disease entering the leaf itself. It works close to the leaf surface, rather than inside the plant.

As triazole fungicides, Stingray and Prestige penetrate and work within the leaf tissue, offering disease control during the early stages of leaf infection.

Although cyproconazole offers curative action, to better utilise the features of AzoxyGuard Xtra, application is recommended in situations where there is zero or low disease establishment.

### **Application Timing**

Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications made in the earliest stages of disease development or as a protectant treatment following a disease risk assessment.

Applications of AzoxyGuard Xtra should be made within the crop growth stages ranging from tillering to early flowering (Z26 to Z62). The object of spraying is to keep the upper 2 to 3 leaves green and functioning through grain filling stage.

Ensure thorough coverage of stems and leaves. Use higher rates under high infection pressure or when longer residual protection is required. Lower rates are effective under low disease pressure, although have reduced residual effects.

Repeat application at early booting stage if necessary. Two applications of the lower rate will generally provide better control than a single application at the higher rate.



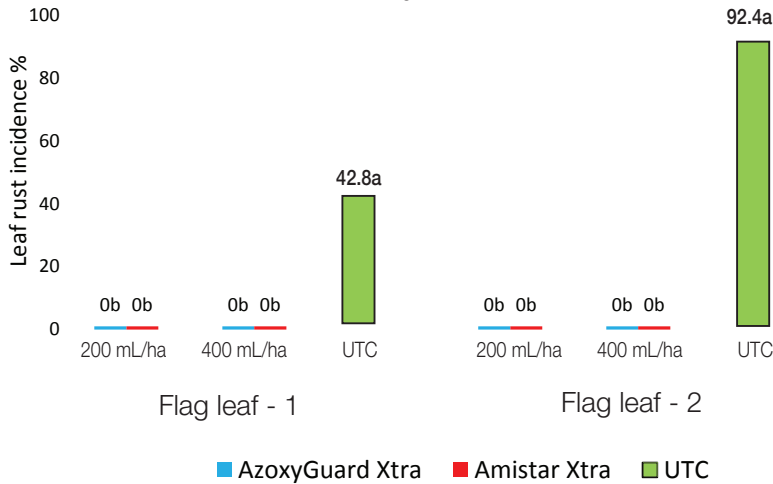
## Barley disease management

AzoxyGuard Xtra aims to delay certain disease development in barley and maintains the green leaf area, reducing the disease impact on yield and grain quality.

In barley, the most important contributors to yield are the flag leaf -1 and -2 (the ear and upper stem), while the flag leaf is relatively unimportant, due to its area. Therefore, protecting these two leaves from disease is the highest priority to achieve greater yields (Jayasena *et al.* 2008).

In 2017 Conquest commissioned independent pot and field trials in 2017 to evaluate the control of Leaf Rust and Net Form Net Blotch and crop safety on barley, between Conquest AzoxyGuard Xtra and the industry benchmark Amistar Xtra.

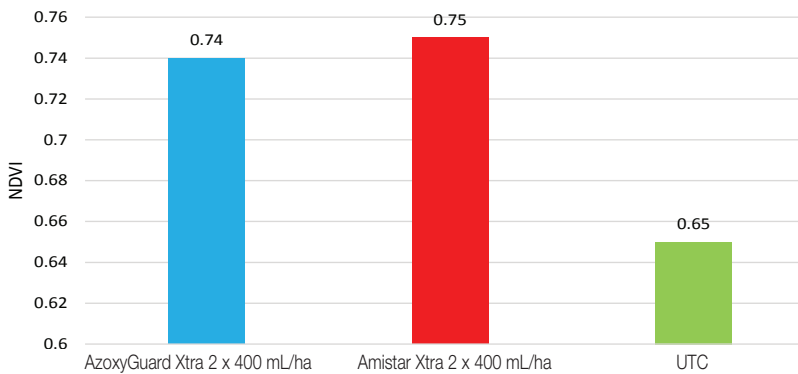
### Control of Barley Leaf Rust



*This replicated pot trial was conducted by Kalyx in 2017. The leaf rust pathogen (Puccinia Hordei) was pre-inoculated onto the leaf surface. The application was done at Z31 stage on Barley cv. Yagan – 26/8/17. The assessment was done at 41 days after application, the crop growth stage was Z52 – 6/10/17. Disease incidence was graded as the indication of disease development level.*

AzoxyGuard Xtra revealed similar efficacy with Amistar Xtra. Both formulations effectively reduced the disease development by up to 100% from low to high label rates on both Flag Leaf -1 and -2. Both formulations also had a similar crop safety profile.

### Control of Net Type Net Blotch & Crop Safety



*This replicated field trial was conducted by Kalyx in Toodyay WA, 2017. Two repeated sprays were applied at Z36 and Z56 stage respectively - Barley cv. Yagan. The assessment was done at 22 days after the second application, the crop growth stage was Z67 – 4/10/17. Normalised difference vegetation index (NDVI) was rated as the level of green leaf area of the crop.*

Treatments of AzoxyGuard and Amistar Xtra obtained similar levels of NDVI and were greater than the untreated control (UTC). This suggests that both formulations effectively maintained the greenness of the leaf surface. Net Form Net Blotch (*Pyrenophora teres f.sp. teres*) was present in the trial.

In addition to the above trial, we also tested both formulations at 2x label rate. Results did not show any leaf necrosis or crop phytotoxicity, suggesting that AzoxyGuard Xtra is as safe as the industry benchmark.