



# Signature™ XTRA Stressgard®

**Active Ingredients:** aluminum tris (O-ethyl phosphonate) [fosetyl-Al] (60%)

**FRAC Code:** 33 (Phosphonates)

**Systemicity:** systemic penetrant

**Formulation:** water-dispersible granule

**Signal Word:** caution

**Best Uses:** Pythium blight, root infecting *Pythium* spp., anthracnose, summer decline and bacterial wilt

**Key Strengths:** Plant health promotion, suppression of bacterial wilt and control of Pythium root dysfunction

Signature™ XTRA Stressgard® is a true systemic fungicide that enhances plant health and minimizes stress from both abiotic and biotic sources. Signature XTRA Stressgard uses a new, improved formulation of fosetyl-AL. Fosetyl-AL, the same active ingredient used in Chipco® Signature, has provided over 20 years of proven Pythium control and consistently high turf-quality ratings, along with no documented reports of resistance development in the field.

Signature XTRA Stressgard delivers enhanced plant health benefits and flexible use patterns, even under the most severe environmental conditions. It's often used as the cornerstone for anthracnose management programs on annual bluegrass and creeping bentgrass golf greens. Plus, it can be tank-mixed with other fungicides for controlling leaf spot and bermudagrass decline on ultra-dwarf greens.

## Attributes Of Signature XTRA Stressgard

- Enhanced Stressgard Formulation Technology for proven plant health effects
  - Optimized formulation reduces oxidative stress
  - Recovery from mechanical damage (i.e. aeration, scalping)
  - Healthier roots, leading to better water and nutrient utilization
  - Induced systemic resistance
- Supports earlier spring green-up, turf fill-in, improved color and density
- Protects the plant from the adverse effects of UV radiation
- Wider application window – flexible rate structure allows for applications on 7-21 day intervals
- No documented disease resistance
- Upwards and downwards systemic mobility
- Documented turf safety with applications in high temperatures

## Solutions For Tough Diseases

- Signature XTRA Stressgard tank-mixes are effective for:
  - Anthracnose and summer decline management
  - Improving turf quality under situations of high and low intensity light stress
- Signature XTRA Stressgard:
  - Reduces the negative effects of low light conditions in warm-season grasses
  - Provides preventative control of Pythium blight and Pythium root rot
  - Can be used to manage symptoms of bacterial wilt

## How To Use Signature XTRA Stressgard

**Alone** - Signature XTRA Stressgard should be used preventively for the control of Pythium diseases on a 7-21 day interval. Apply at higher water volumes or irrigate in with 0.1 inch of water for root-infecting *Pythium* spp. without affecting the benefits to turf quality typically gained from Stressgard Formulation Technology.

**In a tank-mix** - Signature XTRA Stressgard tank-mixes should be applied preventively for disease and stress management.

**NOTE:** Always mix other products in the spray tank with water before adding Signature XTRA Stressgard. Adding it last will help ensure avoidance of product incompatibilities<sup>1</sup>.

**CAUTION:** Do not mix Signature XTRA Stressgard with Spectro™ 90 WDG or copper-containing fungicides such as Junction® fungicide. If there are doubts for any other product used in a tank-mix with Signature XTRA Stressgard, perform a small jar test to identify an incompatible reaction. See the Signature XTRA Stressgard label for full information on performing a compatibility test and the compatibility chart available via your sales distributor.

<sup>1</sup>Please consult the Signature XTRA Stressgard compatibility chart for additional mixing suggestions, however this should not replace a jar test for compatibility.



# Signature™ XTRA Stressgard®

**For summer decline and anthracnose control** - Tank-mix with Daconil Ultrex®, the preferred partner. Mancozeb products such as Fore® Rainshield® and Dithane® Rainshield are also useful for leaf spot, an important disease of bermudagrass.

**For the prevention of root-infecting *Pythium* spp.** - Tank-mix with Banol® Fungicide for early season applications. North Carolina State University suggests that Banol and Signature XTRA Stressgard can be part of a rotational program to control Pythium root dysfunction of creeping bentgrass caused by *Pythium volutum*. ([http://www.turffiles.ncsu.edu/diseases/Pythium\\_Root\\_Dysfunction.aspx](http://www.turffiles.ncsu.edu/diseases/Pythium_Root_Dysfunction.aspx))

**For summer decline management** - Tank-mix with other Stressgard fungicides such as Interface® Stressgard, Mirage® Stressgard and Tartan® Stressgard. Non-Stressgard fungicides such as 26GT® and Prostar® 70 WG can also be used.

KEY DISEASES CONTROLLED <sup>1</sup>	RATE (per 1,000 sq ft)	APPLICATION INTERVAL
Pythium Diseases ●● / Yellow Tuft ●	2.0 - 6.0 oz Signature XTRA Stressgard	14 - 21 days
Anthracnose ● / Summer Decline ●●	4.0 oz Signature XTRA Stressgard + 3.2 oz Daconil Ultrex	14 days
Summer Decline ●●	4.0 oz Signature XTRA Stressgard + 4.0 - 6.0 oz Fore Rainshield	14 days
	4.0 oz Signature XTRA Stressgard + 3.0 - 7.0 fl oz Interface Stressgard or 2.0 - 4.0 fl oz 26GT	14 - 28 days
Bacterial Wilt ●	6.0 oz Signature XTRA Stressgard	14 days

● = cool-season turf diseases

●● = warm-season turf diseases

<sup>1</sup>See the Signature XTRA Stressgard label for the complete list of diseases controlled. Refer to the Signature XTRA Stressgard label for application information. Always read and follow label instructions carefully.

## Signature XTRA Stressgard Rate Chart

USE RATE (fl oz / 1,000 sq ft)	RECOMMENDED INTERVALS	COVERAGE PER CONTAINER (1,000 sq ft)	COVERAGE PER CONTAINER (acre)	LBS Signature XTRA (per acre)	MAXIMUM APPLICATION (per year)
2	7 day	44.0	1.0	5.5	34
3.3	10 day	26.7	0.6	9.0	25
4	14 day	22.0	0.5	10.9	17
6	14 - 21 day*	14.7	0.3	16.3	9

\*14 day rate should be used for reduction of bacterial wilt

**Plots treated with Signature XTRA Stressgard and Potassium Phosphite. Plots replenished with 60% ET (40% deficit).**

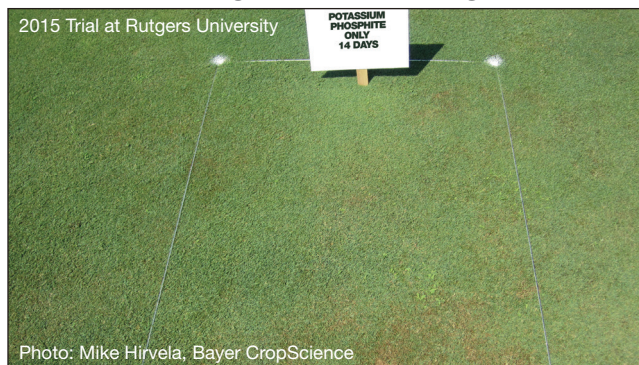


Photo: Mike Hirvela, Bayer CropScience

Potassium Phosphite 6 fl oz - 14 days

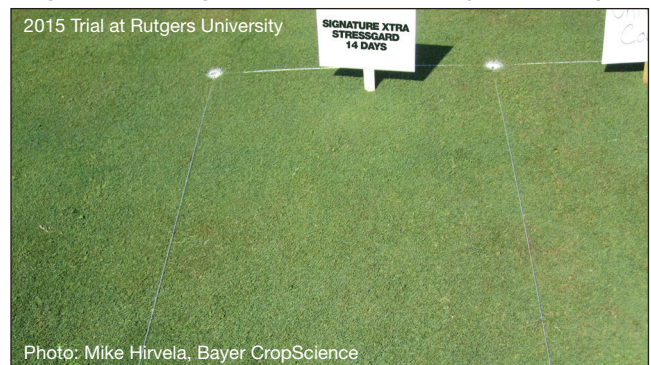


Photo: Mike Hirvela, Bayer CropScience

Signature XTRA Stressgard 4oz - 14 days

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ALWAYS READ AND FOLLOW LABEL INSTRUCTIONS.

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