

The AMVAC Granular Advantage

For Maximum Yield Results in Corn

Corn rootworm (CRW) resistance is a growing problem for farmers throughout the Midwest:

- Extended diapause in Northern CRW is a threat to first-year corn, and the variant Western CRW is beating crop rotation strategies by laying its eggs in soybeans and other crops.
- Extremely heavy rootworm pressure in corn has been documented in many continuous corn areas – in fact, Iowa, Illinois, Minnesota and Nebraska have confirmed Western corn rootworm resistance to Bt proteins
- Insecticide seed treatments applied to CRW hybrids, at any rate, do not control heavy populations of secondary soil insects as well as soil-applied insecticides
- Corn hybrids with Bt traits do not protect against nematodes or other below ground secondary insects such as wireworm and grubs

In what situations can farmers expect the highest return when applying soil insecticides with CRW hybrids?

Corn-on-corn acres, fields with heavy pest pressure such as in no-till or reduced tillage systems, areas where CRW hybrids are being challenged and in fields that have nematode concerns. Applying corn soil insecticide in combination with CRW traits will maximize stands & yields per acre, maximizing the return on investment.

What's the payback?

Application of soil insecticides over CRW hybrids is a matter of risk management. University studies and on-farm trials show an at-plant treatment of AMVAC granular insecticide on CRW trait hybrids can help increase yields by a range of 5 to 11 bu/a over untreated trait hybrids.

A soil insecticide for every need:

AMVAC offers a complete lineup of corn soil insecticides to meet the unique challenges in any cornfield. Growers have



multiple chemistries to choose from – and a full range of packaging and delivery systems: From SmartBox® and Lock 'n Load® closed-handling systems, which minimize dust exposure and reduce waste disposal; to the traditional bags — all to accommodate any type of application equipment.

Following is an overview of each product for your easy reference.

Aztec® Granular Soil Insecticide
NEW AZTEC® HC & AZTEC® 4.67G Bags
AZTEC® 4.67G SmartBox
AZTEC® 2.1G Bags



AZTEC® soil insecticide is AMVAC's lead corn soil insecticide for corn rootworm control. Available in 4 formulations – New AZTEC® HC Higher Concentration Granular and New AZTEC® 4.67G in the Bag, AZTEC® 4.67G in the SmartBox® System, and AZTEC® 2.1G in 50-lb. bags.

- **Active ingredient:** Tebupirimphos, an organophosphate; and Cyfluthrin, a pyrethroid
- **Controls:** Northern, Western, and Southern corn rootworm larvae; cutworm; wireworm; white grub; seedcorn maggot and seedcorn beetle
- **Application rates:**
 AZTEC HC: 1.5 oz./1,000 row ft.
 AZTEC 4.67G: 3.0 oz./1,000 row ft.
 AZTEC 2.1G: 6.7 oz/1,000 row ft.
- **Compatibility:** No herbicide limitation

COUNTER® 20G
Granular Soil Insecticide/ Nematicide



COUNTER® 20G is the only granular corn soil insecticide labeled for control of nematodes, as well as corn rootworms and many secondary corn insects. Available in SmartBox® and Lock'n Load® systems.

- **Active ingredient:** Terbufos, an organophosphate
- **Controls:** All common Corn Belt nematodes including lesion, spiral, sting, stubby-root, root-knot, dagger, lance and stunt nematodes; Northern, western, and southern corn rootworm larvae; and secondary corn insects including wireworm; white grub; seedcorn maggot; seedcorn beetle; corn flea beetle; grape colaspis; maize billbug and southern corn billbug
- COUNTER offers systemic activity to control early season pests which can damage corn above ground, in addition to superior root protection
- **Application rates:** For broad-spectrum insect and nematode control in conventional and refuge corn hybrids: 6 oz/1,000 row ft.
- **Compatibility:** Check label for herbicide options

Learn more about AMVAC corn soil insecticides at www.amvacsmartbox.com



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**SmartChoice® 5G
Granular Soil
Insecticide**



SmartChoice® 5G is AMVAC's lead corn soil insecticide for controlling secondary insect pests. An economical, high-performance soil insecticide, SmartChoice is designed to enhance yield potential of CRW hybrids. Available in SmartBox® and Lock 'n Load® systems.

- **Active ingredient:** Chlorethoxyfos, an organophosphate; and Bifenthrin, a pyrethroid
- **Controls:** Northern, Western and Southern corn rootworm larvae; broad-spectrum control of cutworm, symphylans, wireworm, white grub, seedcorn maggot and grape colaspis
- **Application rates:** For full-spectrum control with conventional hybrids and refuge management: 5 oz/1,000 row ft.
- **Compatibility:** No herbicide limitation
- **Flexibility:** It's the only corn soil insecticide with the rate flexibility for application in less than 30" rows.

**Force® 3G
Granular Soil
Insecticide**



Force® 3G is effective at low use rates. It provides proven, broad-spectrum insect control and long-lasting residual in a granular formulation. Available in the SmartBox® system.

- **Active ingredient:** Tefluthrin, a pyrethroid

*In university studies and on-farm trials, AMVAC granular corn soil insecticides applied on rootworm trait hybrids have delivered increased yields in more than 80% of trials with results ranging from **an additional 5 to 11+ bushels per acre** over un-treated check strips.*



- **Controls:** Northern, Western, and Southern corn rootworm larvae; cutworm, wireworm, white grub, seedcorn maggot, seedcorn beetle and lesser cornstalk borer
- **Application rate:** 4 oz/1,000 row ft.
- **Compatibility:** No herbicide limitation

**SmartBox® System
Closed-Handling
System**



SAFE. ACCURATE. VERSATILE.

The SmartBox® System delivers precision insecticide placement with reduced applicator exposure. Electronically controlled metering provides precise application, while adjusting for changes in ground speed monitored by radar or GPS. Designed to apply very low rates of insecticide per acre accurately, the SmartBox® System enables the use and convenience of higher concentration products.



And with row-by-row monitoring for flow blockages, and positive end-row shutoff, SmartBox® minimizes overlaps, misapplication and waste. The use of AMVAC insecticides in SmartBox® containers eliminates the hassle of opening and emptying bags, which greatly reduces the potential for applicator exposure. And there is no packaging material to dispose of by incineration or dumping. SmartBox® containers are returnable to an AMVAC authorized retailer for refill by AMVAC.

Learn more about AMVAC corn soil insecticides at www.amvacsmartbox.com



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