Promising results from seed research

Several major U.S. seed companies and Dow AgroSciences have researched the use of ProFume® gas fumigant on seeds for stored product pest control with remarkably promising results. ProFume — a broad-spectrum postharvest fumigant developed by Dow AgroSciences — provides fast, effective stored product pest control without corrosion, resistance or disposal issues.

ProFume may be used to fumigate sites containing seeds of labeled commodities such as cotton, corn, wheat, soybeans and more. In addition, sites containing additional seed varieties may be fumigated so long as the fumigated seeds will not be part of the food chain for human consumption.¹

Factors for success

Applicators and seed companies rely on ProFume because it is:

• Fast. ProFume penetrates quickly and aerates rapidly, and a chamber fumigation can be performed in 12 hours or less.

• Flexible. ProFume® gas fumigant offers a flexible fumigation period, so you can choose timing that suits your business needs.

• Efficacious. ProFume is effective on all life stages of major stored product pests and rodents, and ProFume may be used to alleviate pesticide resistance issues.

• Proven. Testing of various seed varieties at maximum label rates, including corn, cotton, grass, wheat, soybean and rice, demonstrated insignificant impact on seed germination in a broad range of studies. Furthermore, no significant interaction between the fumigant and tested seed treatments have been observed.

¹For example, grass seed that will be grown for forage for grazing dairy or beef cattle cannot be fumigated at this time. However, grass that will be planted for athletic turf may be fumigated.
Additional factors for success

• **Nonreactive.** ProFume® gas fumigant is noncorrosive and nonflammable so it will not damage equipment, electronics and/or buildings when used properly. It does not produce odors, and there are no disposal issues after its use.

• **Innovative.** ProFume is administered using Precision Fumigation™ tools and techniques — powerful decision-making tools that offer unprecedented customization and flexibility. In addition, the Fumiguide™ software takes into account variables within a facility to calculate the optimal dosage of fumigant and allows for automated fumigation scenarios, reports and management plans.

• **Sustainable.** Manufactured by Dow AgroSciences, sulfuryl fluoride has been used as a fumigant for nearly 50 years and does not deplete the ozone layer.

• **Available.** ProFume® gas fumigant is currently registered in all 50 states and Puerto Rico. Major fumigation companies have completed training and are prepared to fulfill fumigation needs with ProFume.

A number of seed hybrids/varieties have been fumigated at the maximum labeled rate with no observable effects on seed germination or vigor. However, applicators should exercise caution before treating large amounts of seed, as not all seed hybrid/varieties have been tested, nor have the potential effects of ProFume on germination been tested under all conditions. As such, Dow AgroSciences recommends testing a small amount of seed hybrids/varieties for potential sensitivity to ProFume prior to large-scale fumigation.