USE PLANT PROTECTION PRODUCTS SAFELY, ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE For further information with regard to the warning phrases and symbols for This product please refer to the product lab

Application rates and timing*

Crop	Rate**	Recommended timing	Remarks
Wine grapes Table grapes	35-70 g/ha 50-70 g/ha	From bud burst to pre-fowering and from fruit-set up to harvest	Applications before harvest are effective in reducing the number of chasmothecia
Solanaceous fruits (tomato, sweet/bell pepper, eggplant)	35-70 g/ha	At appearance of very first symptoms and close to harvest	AQ 10 ^{wG} can be used in tank mix or in programs with other fungicides (see compatibility chart)
Cucurbits with edible peel (cucumber, courgette)	35-70 g/ha	At appearance of very first symptoms and close to harvest	AQ 10 ^{wG} can be used in tank mix or in programs with other fungicides (see compatibility chart)
Cucurbits with inedible peel (melon, pumpkin, water melon)	35-70 g/ha	At appearance of very first symptoms and close to harvest	AQ 10 ^{wG} can be used in tank mix or in programs with other fungicides (see compatibility chart)
Strawberry	35-70 g/ha	At appearance of very first symptoms and close to harvest	Applications before harvest are effective in reducing the number of chasmothecia
Rose	35-70 g/ha	At appearance of very first symptoms	AQ 10 ^{WG} can be used in tank mix or in programs with other fungicides (see compatibility chart)

- * AQ 10 WG is not registered for all uses in all Countries. Authorized uses may differ among Countries.
- ** Rates dependent on leaf canopy density and disease pressure.

Benefits and features of AQ10° wg

- Unique and genuine mode of action
- Valuable tool for resistance management
- Active at lower temperatures than sulfur
- Effective against overwintering structures (chasmothecia)
- Safe to beneficials, predatory mites included
- No phytotoxicity
- **Excellent tool to be included in IPM strategies**
- Allowed in Organic Farming
- No MRL restrictions
- No interference with winemaking processes and with microorganisms used in wine production
- Safe to humans and the environment



containing Ampelomyces quisqualis strain AQ10 as active substance

controls Powdery mildews naturally

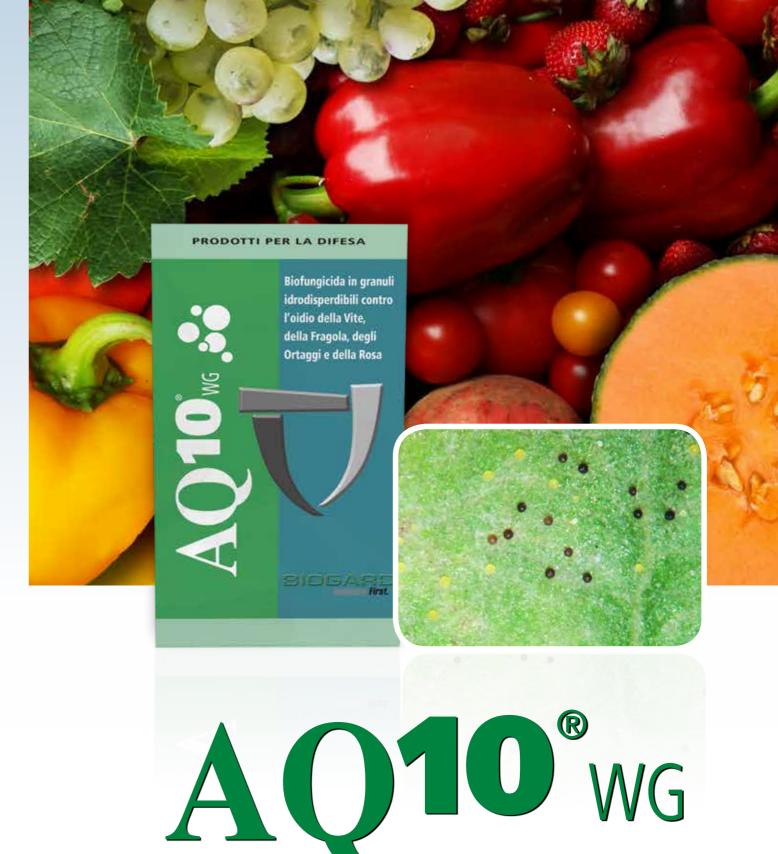
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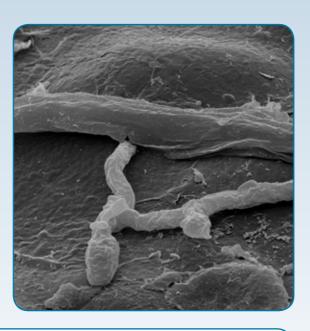
containing *Ampelomyces quisqualis* strain AQ10 as active substance

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Mode of action

The spores of *Ampelomyces quisqualis*, contained in the formulated product, are applied to the crop as a spray suspension in water. On the host plant surface, the spores germinate and the hyphae of the mycoparasite then penetrate the hyphae of powdery mildews in their vicinity (see scanning electron microscope image to the right); if the spores are in direct contact with the powdery mildew hyphae, penetration may also occur directly from the spore. After penetration, the mycoparasite continues its growth inside the mycelum of the pathogen and produces its intracellular pycnidia in the mycelium of the host fungus. Parasitism by *A. quisqualis* leads to the collapse of hyphal strands and death of the pathogen after 5-8 days. New spores of *A. quisqualis* are then released from intracellular pycnidia.



Efficacy of AQ10° wg against powdery mildew % affected leaf area (severity) 40 31,1 a Results conduced 24,3 a protected strawberry, 30 (assessment 7-10 days after 25 N. applications per treatment: 20 6 at 7-day intervals on strawberry, 4 at 7-day intervals 10,3 a on melon, and 4 at 10-day 15 10,5 b intervals on bell pepper. 9,7 b Standard: sulfur at 2,1 kg a.s./ 10 ha on strawberry, bupirimate at 150 g a.s./ha on melon, 3,0 bc sulfur at 1,4 kg a.s./ha on bell 0 Untreated AQ 10 35g/ha AQ 10 70g/ha Standard Strawberry Melon Bell pepper



Active substance: ____Ampelomyces quisqualis (strain AQ10) 58% w/w

(contains a minimum of 5,0 x 10° spores/g)

Formulation: water dispersible granule

CLP-classification:Not classified

PHI: _____0 days in most of the Countries

Shelf life in original

and sealed sachet: ____refrigerated (4-6°C) at least 2 years

in a cool dry place and not exposed to direct sunlight (20-21°C) at least 1 year





Applications of AQ10°wg on wine and table grapes

AQ10_{wG}, when applied close to harvest, will result in a reduced formation of chasmothecia, the overwintering structures of powdery mildew, which are usually formed during ths period. In addition, AQ10_{wG} will also parasitize already formed chasmothecia. Numerous field trials and scientific researches are evidence of the fact that reducing the number of overwintering structures constitutes the first step for controlling powdery mildew epidemics the following spring. AQ10_{wG} does not interfere with winemaking processes and with microorganisms used in wine production,

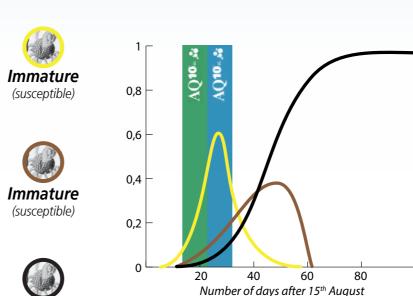


Parasitized powdery mildew chasmothecium with spores of A. quisqualis

and is therefore a valuable tool to be included in powdery mildew control programs close to harvest.

Pre-harvest applications of AQ^{10wg}: the first step to control powdery mildew epidemics the following spring. AQ^{10wg} is the only fungicide that acts by parasitizing also overwintering chasmothecia

Dynamics of chasmothecia formation (Central-Northern Italy)



The formation of chasmothecia is initiated by a sudden drop in temperatures (of more than 6°C over a period of 2-4 days), which can easily occur following the first late-summer

storms.

The correct timing for applications of AQ^{10wG} against overwintering chasmothecia is when most of them are still yellow in colour (see Figure to the left). Immature chasmothecia (yellow and brown) are susceptible to parasitization by *A. quisqualis*, while mature (black) chasmothecia are not.

Directions for use

Mature

- Ensure thorough and uniform coverage, including the underside of leaves; the addition of an adjuvant (spreader/sticker) is recommended to improve uniformity of distribution of spores on the vegetation.
- If possible, use entire sachet; open sachets, if not completely used, should be stored refrigerated (4-6°C).
- AQ¹⁰_{wG} is a microbial fungicide and may be affected by other plant protection products, especially fungicides; consult your distributor regarding compatibility of other products with AQ¹⁰_{wG}.
- To ensure adequate establishment of the fungal antagonist on the crop, applications should be repeated every 7-10 days with at least 2 successive applications.