

# Celite<sup>®</sup> 610

A NATURAL, SAFE AND RELIABLE PESTICIDE



EPA Reg. No. 73729-1



IMERYS

# Natural insecticide – EPA registered and OMRI approved

CELITE 610 MECHANICAL INSECTICIDE has been proven effective against the most problematic insect pests such as cockroaches, ants, beetles, bedbugs, and other crawling insects

## Natural Insecticide

CELITE 610 is an EPA registered and OMRI approved mechanical insecticide. As 100% pure, natural diatomaceous earth it is a qualified generic material listed on the National Organic Program (NOP). Products treated with CELITE 610 can be approved by OMRI, CCOF or other accredited certifier to be sold as “organic.”



Surfactants and wetting agents can be added to the slurry tank to improve adhesion of CELITE 610 to plant surfaces. Spray should be directed to coat all sides of leaves and fruits.

## How Does It Work?

CELITE 610 insecticide is the safe and effective alternative to chemical insecticides for a variety of pests. It can be used indoors and outdoors in dry situations. CELITE 610 is a mechanical insect killer and insects cannot become immune to its action. Insects come in contact or ingest this powder and die within 48 hours. As a mechanical insecticide, it can be used independently or alongside chemical insecticides to form part of a cost-effective Integrated Pest Management program.

CELITE 610 insecticide is a non-toxic, fine powder that works by removing and adsorbing the protective waxy covering of insects that are exposed to it. This covering protects insects from water loss and they dehydrate when the protective layer is removed.

CELITE 610 is intended for application with a hand duster, power duster, or other similar means of application, to areas where crawling insects are found. CELITE 610 can be also be slurried into water and sprayed.

## Application Guidelines

### FIELD CROPS

Application rate depends on crop and maturity.

- ▶ Dusted at 15-35 lbs. per acre.
- ▶ Slurried at 1.5 lbs. per gallon, then sprayed at 44 gallons per acre (equivalent to 70 dry lbs. per acre).

### STORED GRAIN

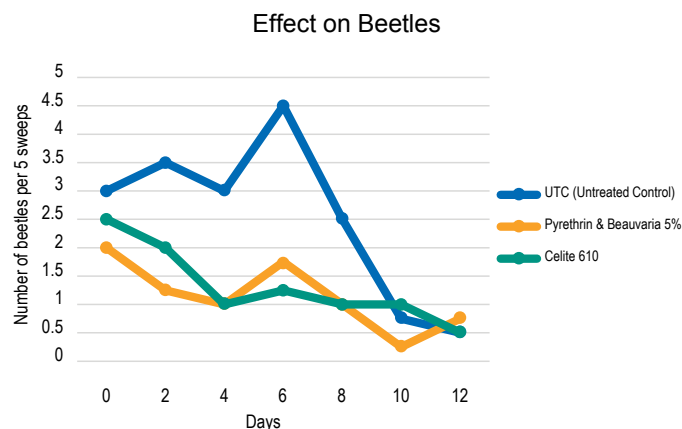
For use with stored grain, including barley, buckwheat, corn, oats, rice, rye, sorghum grain, wheat, and mixtures of these grains. For best results, treat grain immediately after harvest. Academic studies have also indicated this product is effective on stored beans. Application rate: 7 lbs. per ton of grain.

CELITE 610 can also be applied in and around empty silos as a deterrent to infestation.

- Application rate:
- ▶ 1 lb. per 1000 square feet.

### Effect on Beetles

- ▶ Celite 610 insecticide performed well as a stand-alone treatment, similar to the industry standard.
- ▶ Rotating the application of Celite 610 and Pyrethrin would reduce the likelihood of pesticide resistance build up.



# Mechanical insecticide – insects cannot become immune

## ANIMAL ENCLOSURES (INDOOR USE ONLY)

Empty animal enclosures can be dusted as a precautionary measure before laying down straw or litter. Apply to areas where crawling insects are found. Some insects are known carriers of bacterial infections. Removal of these insects may reduce infection rates inside animal enclosures. Power dusters are available to enable rapid and uniform application.

Application rate:

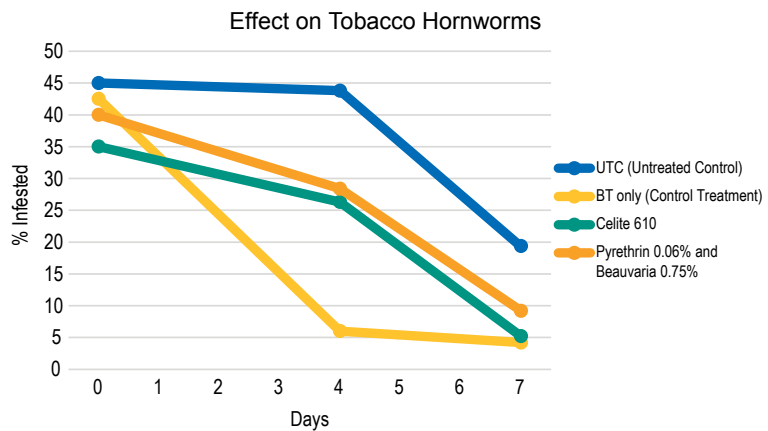
- 1 lb. per 1000 square feet.

Diatomaceous earth is a permitted flow-aid ingredient in animal feed, up to a limit of 2 wt.% in the final feed product.



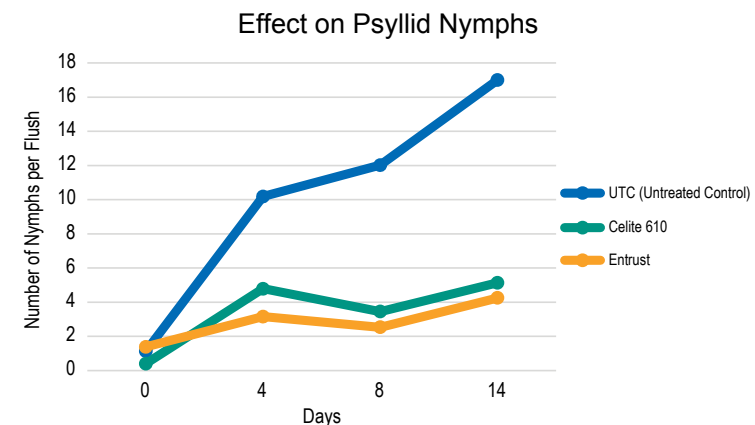
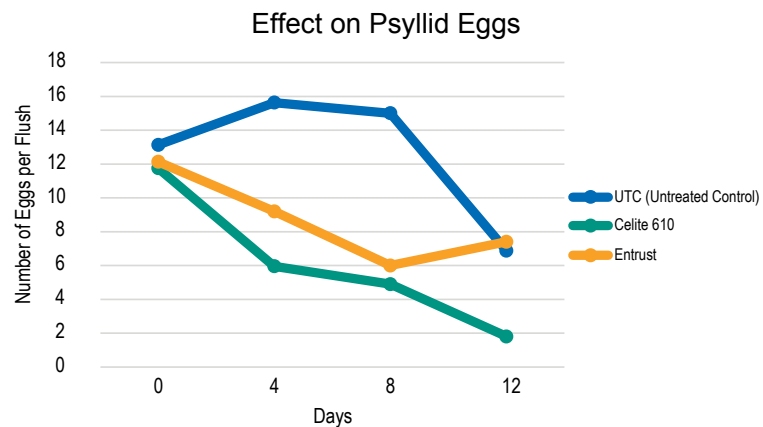
### Effect on Tobacco Hornworms

- Celite 610 performed well as a standalone treatment, even though conditions were humid.
- Bt is a toxin, with fast knock-down, but short lived.



### Effect on Citrus Psyllids - Eggs and Nymphs

- Celite 610 performed well as a standalone treatment, even in humid and rainy conditions.
- It decimates the adults and breaks the breeding cycle by reducing egg laying.



# Safe and effective alternative to chemical insecticides



PHOTOS (L to R): CELITE 610 insecticide is an effective natural pesticide for use on crops such as citrus trees, cabbage/brassica and peppers.

## RECOMMENDED GRADES | IMERY'S NATURAL DIATOMACEOUS EARTH FOR PESTICIDES

| GRADE      | Type                    | Product Form          | Moisture, as shipped, % | Loose Weight, g/L | pH  | Specific Gravity | 325 Mesh Screen, % retained | Water Absorption, % by weight |
|------------|-------------------------|-----------------------|-------------------------|-------------------|-----|------------------|-----------------------------|-------------------------------|
| CELITE 610 | Engineered natural D.E. | Dust /Wettable Powder | 6.0                     | 155               | 9.3 | 2.3              | 1.0                         | 220                           |

The physical properties of the products represent typical values obtained in accordance with Imerys test methods and are subject to manufacturing variations. They are provided here as a general reference only, are subject to change without notice, and should not be relied on for any particular application.

### Packaging

CELITE 610 is available in bulk, supersacks or 40 pound bags. Smaller bags and pails are available through our national distribution network partners.

### Health & Safety

For Health & Safety information, please refer to the Safety Data Sheet (SDS) on [www.imerys-filtration.com](http://www.imerys-filtration.com).

[www.imerys-filtration.com](http://www.imerys-filtration.com) | [www.imerys.com](http://www.imerys.com)



Imerys Filtration & Additives North America  
Tel: 408-643-0200 - Email: [info@imerys-filtration.com](mailto:info@imerys-filtration.com)