

# Silwet\* 618

Spray Adjuvant to control Green Leafhopper on Tea Plant



## Application

China is the largest producer and consumer for tea. In 2009, China planted about 1.86 million tea plant with 1.35 million tonnes yield. Tea plants are widely grown in the south China. Green leafhopper is one main pest causing severe damage to tea plants. To ensure high crop yields and better quality, growers usually treat tea plants with insecticides, such as Bifenthrin and Lambda-cyhalothrin. Meanwhile, they have to control the dosage for minimizing the potential pesticide residue.

Momentive's **Silwet 618** spray adjuvant is a typically cost-effective wetting agent, used where spray coverage is needed on foliar surfaces without any rapid pesticide uptake. Since Silwet 618 spray adjuvant is a unique spreader adjuvant with much lower surface tension than most commercial surfactants, it can enhance pesticide spray coverage even at significantly lower spray volumes. To demonstrate its specific benefits, the Silwet 618 spray adjuvant was trialed with standard 2.5% Bifenthrin EC and 2.5% Lambda-cyhalothrin EW spray treatments on tea plants.

## Field Trials

Location	Zhejiang province, China
Crop	Tea plant
Insecticide	2.5% Bifenthrin EC (Use Rate: 281.25 g/Ha) or 2.5% Lambda-cyhalothrin EW (Use Rate: 281.25 g/Ha)
Insect	Green Leafhopper ( <i>Empoasca vitis</i> (Gothe))
Spray Adjuvant	Silwet 618 (Adjuvant Rate: 281.25 mL/ Ha)
Application	Tank-mix (Spray Rate: 562.5 L/Ha)

Note: Test data. Actual results may vary.

## Results

Field trial results demonstrated the following specific benefits resulting from the addition of the Silwet 618 spray adjuvant to the 2.5% Bifenthrin EC or 2.5% Lambda-cyhalothrin EW spray treatments applied on tea plants:

- 99% or better control of green leafhoppers on tea after 7 DAT.
- 50% spray volume reduction resulting to lower application costs
- 50% lower pesticide dose rates (equivalent or better performance to full treatment)

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