

Silwet* 618

Spray Adjuvant to control Downy Mildew on Cucumbers



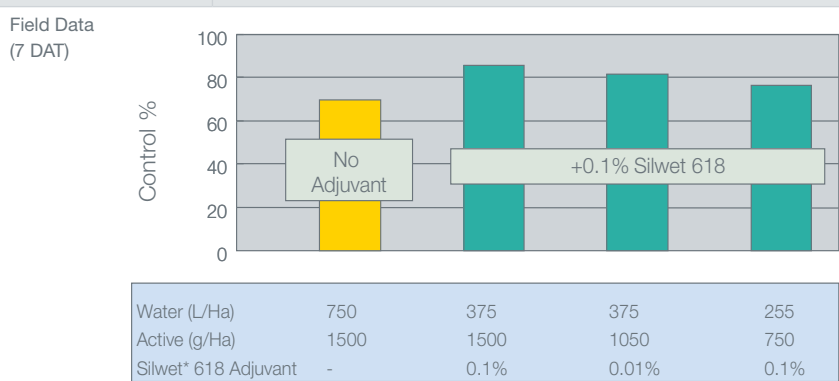
Application

Greater China is by far the largest world producer of cucumbers with over 25 million tonnes per year with >1.25 million hectares cultivated field. Downy mildew is causing severe damage to cucumber crops. To ensure high crop yields and better quality, growers treat cucumber fields with broad-spectrum fungicides, such as Curzate® (8% cymoxanil + 64% mancozeb).

Momentive's **Silwet 618** spray adjuvant is a 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 typically enhances pesticide spray coverage even at significantly lower spray volumes. To demonstrate its specific benefits, the Silwet 618 spray adjuvant was trialled with standard Curzate WP spray treatments on cucumber crops.

Field Trials

Location	Shaanxi province, China
Crop	Cucumber
Fungicide	Curzate WP(8% cymoxanil + 64% mancozeb) (Pesticide Rates : 1500 g/Ha ;1050 g/Ha ; 750 g/Ha)
Pest	Downy mildew (<i>Pseudoperonospora cubensis</i>)
Adjuvant	Silwet 618 (Adjuvant Rates: 0.1%)
Application	Tank-mix (Spray Rates: 750 L/Ha; 375 L/Ha; 255 L/Ha)



Note: Test data. Actual results may vary.

Results

Trials demonstrated the following benefits from the Silwet 618 spray adjuvant addition to Curzate sprayed on cucumbers:

- 76-83% control with the Silwet 618 spray adjuvant addition (70% control with no adjuvant treatment)
- 50-66% less spray volumes, resulting to lower application costs
- 30-50% lower Curzate dose rates

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