

# Silwet\* 618

Spray Adjuvant to control Downy Mildew on Onion



## Application

China is the largest producer for onion with over 4 million tonnes yield per year. Downy mildew is one main diseases causing severe damage to onions. To ensure high crop yields and better quality, growers usually treat downy mildew with fungicides, such as metalaxyl and mancozeb.

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 58% Ridomi / Mancozeb WP spray treatments on onion.

## Field Trials

Location	Shandong province, China														
Crop	Onion														
Fungicide	Ridomil-mancozeb 58% WP (10% metalaxyl + 48% mancozeb) Use Rate: 1500 g/Ha, 1050 g/Ha														
Disease	Downy Mildew														
Spray Adjuvant	Silwet 618 (Adjuvant Rate: 0.1%)														
Application	Tank-mix (Spray Rate: 900 L/Ha, 450 L/Ha)														
Field Data (7 DAT)															
	<table border="1"> <tr> <td>Water (L/Ha)</td> <td>900</td> <td>450</td> <td>450</td> </tr> <tr> <td>Active (g/Ha)</td> <td>1500</td> <td>1500</td> <td>1050</td> </tr> <tr> <td>Silwet* 618 Adjuvant</td> <td>-</td> <td>0.1%</td> <td>0.1%</td> </tr> </table>	Water (L/Ha)	900	450	450	Active (g/Ha)	1500	1500	1050	Silwet* 618 Adjuvant	-	0.1%	0.1%		
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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 58% Ridomi / Mancozeb WP spray treatments applied on onions:

- 82% or better control of downy mildew on onion (79% control with no adjuvant treatment).
- 50% spray volume reduction resulting to lower application costs
- 30% lower pesticide dose rates (better performance than full treatment)

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