

Silwet* 408

Spray Adjuvant to control Aphids on Chinese Cabbages



Application

China is the largest world producer of Chinese cabbage. Aphids are pests causing severe damage to cabbage. To ensure high crop yields and better quality, growers treat cabbages with broad-spectrum insecticides, such as Actara® (25% thiamethoxam WDG).

Momentive's **Silwet 408** spray adjuvant can decrease the surface tension of pesticide spray treatments significantly more than other conventional spray adjuvants. This property typically leads to improved spray coverage, lower spray volumes, lower application cost. To demonstrate the specific benefits of silicone spray adjuvants, the Silwet 408 spray adjuvant was trialled with standard Actara EC spray treatments on Chinese cabbage.

Field Trials

Location	Beijing, China														
Crop	Chinese cabbage (<i>Beassica pekinensis</i> (Lour.) Rupr.)														
Insecticide	Actara (25% thiamethoxam WDG) (Pesticide Rates : 90 g/Ha ; 75 g/Ha ; 60 g/Ha)														
Pest	<i>Brevicoryne brassicae</i>														
Adjuvant	Silwet 408 (Adjuvant Rates: 0.025%)														
Application	Tank-mix (Spray Rates: 900 L/Ha)														
Field Data (7 DAT)															
	<table border="1"> <tr> <td>Water</td> <td>900</td> <td>900</td> <td>900</td> </tr> <tr> <td>Active</td> <td>90</td> <td>75</td> <td>60</td> </tr> <tr> <td>Silwet* 408 Adjuvant</td> <td>-</td> <td>0.025%</td> <td>0.025%</td> </tr> </table>	Water	900	900	900	Active	90	75	60	Silwet* 408 Adjuvant	-	0.025%	0.025%		
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Active	90	75	60												
Silwet* 408 Adjuvant	-	0.025%	0.025%												

Note: Test data. Actual results may vary.

Results

Trials demonstrated the following benefits from the Silwet 408 spray adjuvant addition to Actara sprayed on cabbages:

- Silwet 408 treatments gave equivalent control when compared to Actara without adjuvant
- 17-33% lower Actara® pesticide dose rates with better control

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