

Silwet* 408

Spray Adjuvant to control Grey Speck Fungi on Soybeans



Application

China has about 8,800,000 ha cultivated soybean fields with 14.5 million tonnes yield per year. Most soybeans are grown in the northeast provinces of China. Grey speck disease is one of the main diseases causing severe damage to soybeans. To ensure high crop yields and better crop quality, growers usually treat soybean fields with fungicides, such as Thiophanate-methyl.

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 costs and rapid uptake of agrochemicals into the plants. To demonstrate the specific benefits of silicone spray adjuvants, the Silwet 408 spray adjuvant was trialled with 70% Thiophanate-methyl WP fungicide spray treatments on soybean crops.

Field Trials

Location	Heilongjiang province, China		
Crop	Soybeans		
Fungicide	Thiophanate-methyl 70% WP (Pesticide Rate: 1.05 kg/ha)		
Pests	Grey speck disease (<i>Cercosporidium sojinum</i>)		
Spray Adjuvant	Silwet 408 (Adjuvant Rate: 50 mL/ ha)		
Application	Tank-mix (Spray Rate: 100 L/ha)		
Field Data			
Pesticide Treatments	Yield(kg/ha)	Comparing with no treatment (kg/ha)	Comparing with fungicide only (kg/ha)
Thiophanate-methyl only	2354	+206	
Thiophanate-methyl + Silwet 408	2412	+264	+58
Water spray treatment only	2148		

Note: Test data. Actual results may vary.

Results

Field trial results demonstrated the following specific benefits resulting from the addition of the Silwet 408 spray adjuvant to the 70% Thiophanate-methyl WP spray treatments applied on soybean crops:

- **58 Kg yield improvement per hectare with the Silwet 408 spray adjuvant addition**
- 50% spray volume reduction resulting to lower application costs
- 78% control with the Silwet 408 spray adjuvant addition (72% control with no adjuvant treatment)

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