

# Silwet\* 408

Spray Adjuvant to control Brown Spot Fungi on Soybeans



## Application

Soybeans are a global crop that provides an important source of both oil and protein. Cultivation is successful in hot summer climates with optimum growing conditions in mean temperatures of 20 to 30°C (68 to 86°F). Under such a weather condition, **brown spot** is a common and devastating foliar disease. It is caused by the very aggressive *Septoria glycines* fungi, which cause premature defoliation and some yield loss during very wet growing seasons. Systemic fungicides have been widely used to provide protection against this foliar disease affecting soybean crops.

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 trialed with a standard fungicide treatment on soybeans.

## Field Trials

Location	Argentina
Crop	Soybeans
Fungicide	Sphere (Trifloxystrobin + Cyproconazol: 375 +160 g/l) + MSO Vegetable Oil Pesticide rates used : 300 ml/ha + 600 ml/ha
Pests	<i>Septoria glycines</i> (brown spot)
Spray Adjuvant	Silwet 408 (Adjuvant rate: 0.05%)
Application	Tank-mix (Spray rate: 200 liters/ha)

Note: Test data. Actual results may vary.

## Results

Field trials demonstrated the following benefits resulting from the addition of the Silwet 408 spray adjuvant to the standard fungicide treatment on soybean crops:

- 6% better control of brown spot disease than current adjuvant (Ecorizospray)
- 4% higher crop yield (equivalent to +178kg/ha)
- Similar low spray volumes to the standard treatment (200 liters/ha)

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