



# Adsee<sup>®</sup> 900



A multipurpose adjuvant for bioefficacy  
enhancement and superior spreading

Nouryon

# Adsee® 900

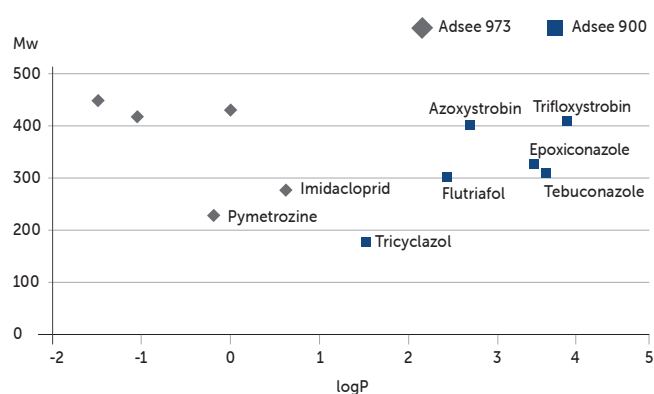
Adsee® 900 is an alcohol ethoxylate and used both as in-can and tank-mix applications globally.

## Adsee 900 General Information

- Can be used as built-in or tank-mix adjuvant
- C-10 alcohol ethoxylates
- Excellent wetting agent
- Improves retention of droplets
- Works best for hydrophobic actives (Log P >1).

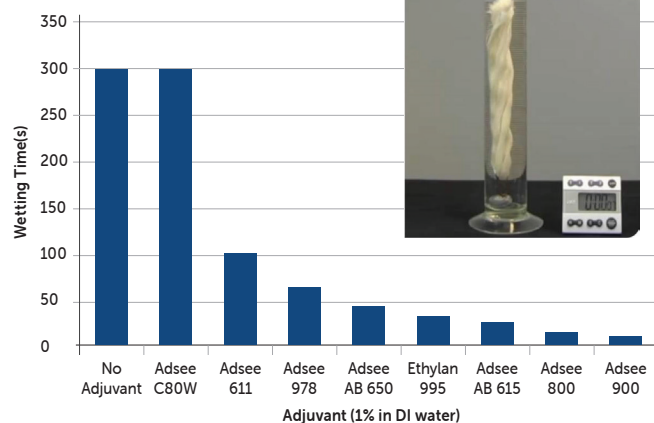
Characteristics	Typical Values
Active content	90%
Cloud point	52-57°C (1% water)
Surface tension	27 mN/m (Du Nouy, 0.1%, 25°C)
pH	5-7 (1% water)
Foaming power	22 ml, immediately (persistent foaming CIPAC MT 47 conc. 0.5 gas/l in room temperature)
Wetting power	0.1% 8 s (Draves, 25°C)
Adsee 900 (for hydrophobic AI)	
Fungicides	Triazoles Strobilurins
Herbicides	Propyzamid Fenoxaprop

## Evaluation of Field Trials

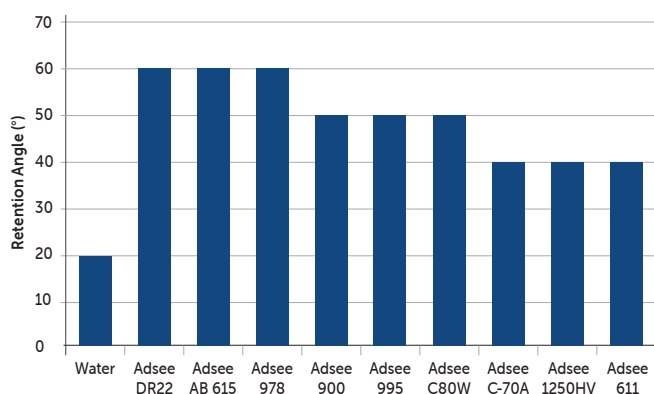


## Wetting

### Draves Test

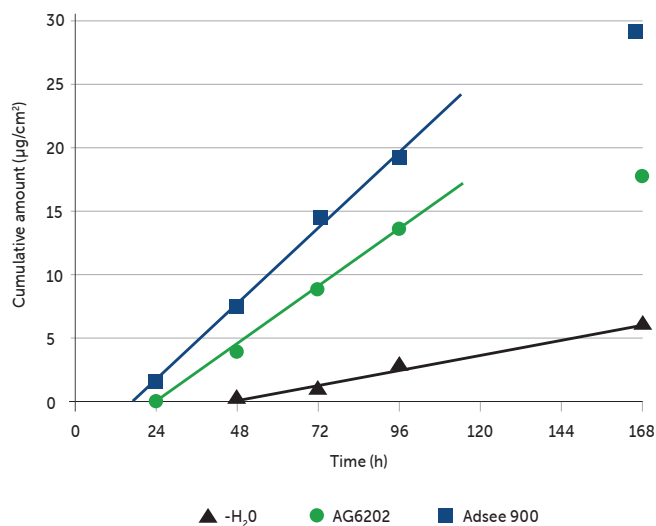


## Retention



## Franz cell penetration measurement

- Penetration through cuticula membrane measured in collaboration with Biofilm Institute
- Adsee 900 improved the penetration of Tebuconazole compared with glucosides
- It also decreased the lag time from 48h to 18h, thus the efficacy of the fungicide can be seen much faster

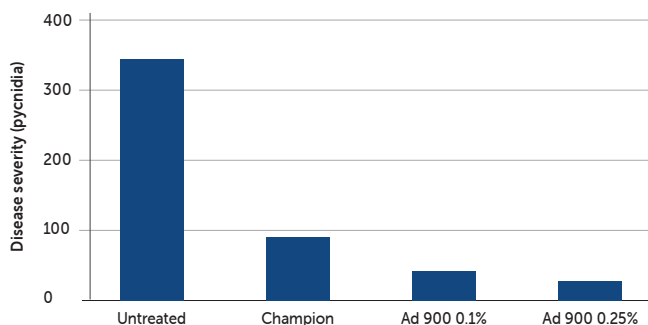


A Fagerström, V Kocherbitov, T Ruzgas, P Westbye, K Bergström, J Engblom (2013) Effects of adjuvants on Tebuconazole leaf cuticle, Colloids and Surfaces B 103 pp. 572-579

## Greenhouse Trials

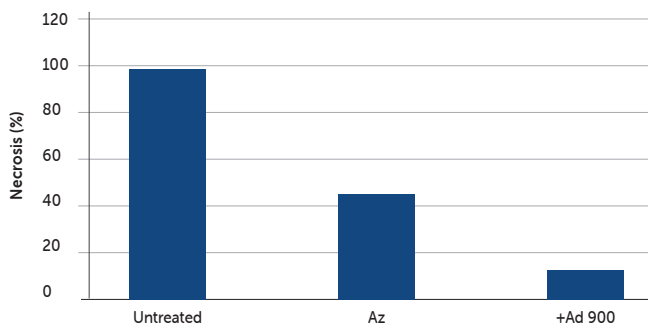
### Adsee 900 + Champion (fungicide)

- Champion is a blend of epoxiconazole + boscalid
- Disease: *Septoria tritici*
- Crop: Wheat



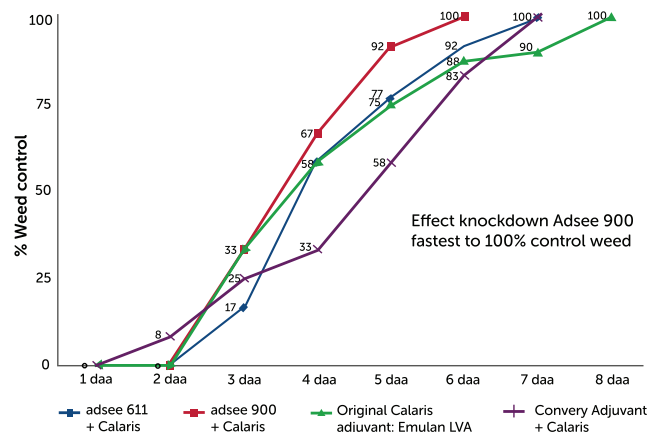
### Adsee 900 + Azoxystrobin (fungicide)

- 0.2% adjuvant
- 62.5 g ai/ha
- Disease: *Septoria tritici*
- Crop: Wheat



## Trial Weed Knockdown Result

- Calaris; Atrazine + Mesotrione mixture
- Adsee 900 with an excellent wetting agent give faster knock down time (at 6daa) vs other
- 1.5 l calaris/ha, 0.15% adjuvant 300 l/ha, 15Dap



## Weed Control Comparison

Adsee 900 improves control of a number of weeds.

Weeds	Calaris + Adsee 900
Amaranthus spp	Very Good
Althemantera spp	Very Good
Borreria sp	Very Good
Cleome rutidospermae	Very Good
Commelina benghalensis	Very Good
Cynodon dactylon	Good
Cyperus rotundus	Medium
Digitaria ciliaris	Very Good
Echinochloa colona	Good
Galinsoga parviflora	Very Good
Ipomea trilobata	Very Good
Rodbulia	Medium
Portulaca spp	Very Good

Very Good <80%

Good 50-80%

Medium <50%



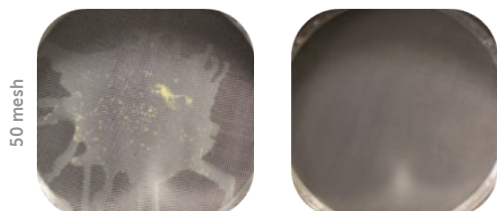
## Compatibility

A compatibilizing adjuvant should provide a homogeneous spray solution, without precipitates and color change. Tests were based on ASTM E1518 - 05 (2012) and ABNT 13875 (2014). Both are founded on the same basic principles of mixing, stirring and checking for residue formation.

## Tankmix

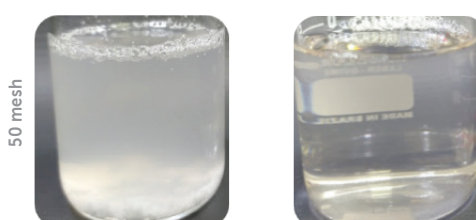
Mancozeb (WP) 3% (w/v)  
Difenoconazol/Ciproconazool (EC) 0.5% (v/v)

0.3% of Adsee 900



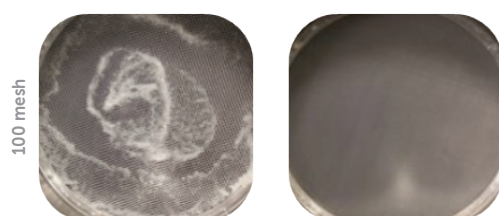
Potassium Glyphosate (SL) 3% (v/v)  
CoMo 0.15% (v/v)

0.1% of Adsee 900

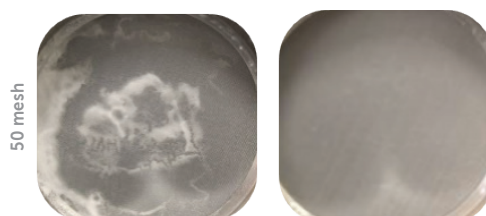


Ammonium Glyphosate (WG) 3.5% (w/v)  
2.4-D – 3.5% (v/v)

0.1% of Adsee 900



0.1% of Adsee 900



Contact us directly for detailed product information and sample request.  
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# Nouryon

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