



# TEST REPORT

of the  
**Julius Kühn-Institut**  
Federal Research Institute  
for Cultivated Plants, Braunschweig



**Double - Flatfan nozzle TeeJet APTJ-11006VP  
(Plastic, grey)**

**Approved for spraying field crops**

**Applicant**  
TeeJet Technologies GmbH  
Paul-Strähle-Straße 10  
73614 Schorndorf

**Manufacturer**  
Spraying Systems Co.  
North Ave at Schmale Rd.  
Wheaton, IL (USA)

**Approved on**  
**27 January 2022**

## Assessment

The double-flatfan nozzle TeeJet APTJ-11006VP (Plastic, grey) was tested without accessories. The nozzle is suitable for spraying field crops, provided that the following technical requirements are fulfilled:

1. Installation in a spray boom with a sufficient and a steady amount of liquid flow,
2. 500 mm nozzle spacing,
3. 50 cm between nozzles and spray target (consistency of evenness of cross distribution proved satisfactory at a distance range from 40 cm to 60 cm),
4. Spray pressure – measured in front of the nozzle – between 2.0 and 7.0 bar; liquid volume flow per nozzle as stated in table below.

Suitable precautions should be taken to assure that the nozzles do not get blocked up or drip when in use. The nozzles have a key width of 8 mm. The colour coding of the nozzle comply with standard ISO 10625.

Pressure (bar)	Liquid flow volume without accessories (l/min)	Max. deviation of single nozzle flow from the dosage tables	Evenness of cross distribution at (cm) 40 / 50 / 60 (Vk %)	Droplet spectrum (ISO 25358)
2.0	1.95	-	6.8 / 4.3 / 3.7	ultra coarse
3.0	2.39	1.76 %	- / 3.9 / -	ultra coarse
4.0	2.76	-	3.3 / 3.4 / 2.8	ultra coarse
5.0	3.08	3.83 %	- / 2.5 / -	extreme coarse
6.0	3.37	-	- / 3.2 / -	extreme coarse
7.0	3.64	2.06 %	- / 3.5 / -	extreme coarse

## Loss reducing properties

Included in the list „Loss reducing equipment“ (11 May 2022)

Drift reducing classification	Type of equipment and drift reducing parts	Regulations for use
50 %	Fieldsprayers with nozzle TeeJet APTJ-11006VP	First 20 m from field edge spraying with max. 7.0 bar, nozzle height above target 50 cm.
75 %	Fieldsprayers with nozzle TeeJet APTJ-11006VP	First 20 m from field edge spraying with max. 5.0 bar, nozzle height above target 50 cm.
90 %	Fieldsprayers with nozzle TeeJet APTJ-11006VP	First 20 m from field edge spraying with max. 3.0 bar, nozzle height above target 50 cm.

## Field test

The nozzles were used in the year 2021 on a total of 845 hectares, a sufficient effect of the plant protective measures was confirmed.

## Basics for testing

The tests were carried out on basis of the Regulations for Testing Plant Protection Equipment (JKI-Guideline 2-1.1:2013) and of ISO 5682-1:1999. The requirements of ISO 16119-2:2013 and of JKI-Guideline 1-2.1:2013 were fulfilled.

### Field testing:

Landwirtschaftskammer  
Nordrhein-Westfalen  
Pflanzenschutzdienst, Ref. 62  
Nevinghoff 40  
48147 Münster

### Technical testing:

Institute for Application Technique in  
Plant Protection  
Messeweg 11-12,  
38104 Braunschweig

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