



# TEST REPORT

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

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**Double - Flatfan nozzle AITTJ60–110 05 VP  
(Plastic, brown)**

**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**

**24. February 2021**

## Assessment

The double-flatfan nozzle TeeJet AITTJ60–110 05 VP (Plastic, brown) 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 1.5 and 8.0 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 dimensions of the nozzle tip comply with standard ISO 10626. 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) |
|----------------|--|---|--|------------------------------|
| 1.5            | 1.44   | 4.32 %  | 5.2 / 328 / 2.1  | very coarse                  |
| 2.0            | 1.66   | -   | - / 2.3 / -  | very coarse                  |
| 3.0            | 2.04   | 3.88 %  | 3.9 / 2.0 / 2.3  | very coarse                  |
| 4.0            | 2.35   | 3.83 %  | - / 2.1 / -  | very coarse                  |
| 5.0            | 2.63   | -   | - / 2.1 / -  | very coarse                  |
| 8.0            | 3.33   | -2.12 %   | - / 2.2 / -  | coarse                       |

## Field test

The nozzles were used in the year 2020 on a total of 1442 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:

Landesamt für ländliche Entwicklung,  
Landwirtschaft und Flurneuordnung  
- Pflanzenschutzdienst -  
Müllroser Chaussee 54  
15236 Frankfurt (Oder)

### Technical testing:

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

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