# TEST REPORT



## Julius Kühn-Institut

Federal Research Institute for Cultivated Plants, Braunschweig



Flatfan nozzle ASJ CFA110025 (plastic, lilac )

### Approved for spraying field crops

Applicant and Manufacturer ASJ Spray-Jet Via Busca 101 12044 CENTALLO (CN) ITALY ITALIEN

G 2173

Approved on 31 March 2020

#### Assessment

The flatfan nozzle ASJ CFA110025 (plastic, lilac) 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 eveness 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 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 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 (I/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	0.81	-1.33 %	- / 4.8 / -	very coarse
3.0	1.00	2.44%	3.5 / 4.2 / 5.2	very coarse
4.0	1.15	-	- / 4.0 / -	coarse
5.0	1.29	-3.33 %	- / 4.5 / -	coarse
6.0	1.41	-	- / 4.0 / -	medium
7.0	1.52	-	-	medium
8.0	1.63	-4.54 %	-/3.2/-	medium

#### Loss reducing properties

Included in the list "Loss reducing equipment" (27 November 2020)

Drift reducing	Type of equipment and drift	Regulations for use
classification	reducing parts	
50 %	Field sprayer with nozzle ASJ CFA100025	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 2019 on a total of 1413 hectares in field crops, 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) Institute for Application Technique in Plant Protection

Messeweg 11-12, 38104 Braunschweig

Technical testing:

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