



TEST REPORT

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



**Flatfan nozzle ASJ CFA11002
(plastic, yellow)**

Approved for spraying field crops

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

Approved on
31 March 2020

Assessment

The flatfan nozzle ASJ CFA11002 (plastic, yellow) 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 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 (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	0.66	-	7.7 / 2.1 / -	extreme coarse
3.0	0.81	1.56 %	1.7 / 2.1 / 1.8	very coarse
4.0	0.93	-	- / 1.9 / -	very coarse
5.0	1.04	2.54 %	- / 3.5 / -	coarse
6.0	1.14	-	- / 4.4 / -	coarse
7.0	1.23	-	-	medium
8.0	1.33	2.52 %	- / 5.8 / -	medium

Loss reducing properties

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

Drift reducing classification	Type of equipment and drift reducing parts	Regulations for use
50 %	Field sprayer with nozzle ASJ CFA10002	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. 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

© JKI, March 2021