TEST REPORT

of the

Julius Kühn-Institut

Federal Research Institute
for Cultivated Plants, Braunschweig

Flatfan nozzle ASJ AFC080015
(Ceramics, plastic-coated, green)

Approved for spraying orchards and vineyards

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

Approved on
9 January 2020

Institute for Application Technique in Plant Protection
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Assessment

The flatfan nozzle ASJ AFC080015 (ceramics, plastic-coated, green) was tested without accessories. The nozzle is suitable for orchards and vineyards, provided that the following technical requirements are fulfilled:

1. Installation in nozzle tubes with sufficient and a steady amount of liquid flow,

2. Spray pressure – measured in front of the nozzle – between 3.0 and 20.0 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 tip comply with standard ISO 10625.

Pressure (bar)	Liquid flow volume without accessories (l/min)	Max. deviation of single nozzle flow from the dosage tables	Droplet spectrum (ISO 25358)
3.0	0.60	-4.04 %	very coarse
4.0	0.69	-	-
6.0	0.85	-1.65 %	medium
8.0	0.98	4.47 %	medium
10.0	1.10	-1.34 %	medium
12.0	1.20	-	medium
15.0	1.34	2.48 %	fine
20.0	1.55	-	-

Field test

The nozzles were used in the year 2019 on a total of 78 hectares in orchards, 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:
Institut für Anwendungstechnik im
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