



TEST REPORT

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



Flatfan nozzle ALBUZ CVI 80-01
(Ceramics, plastic-coated, orange)

Approved for spraying orchards and vineyards

Applicant
Agrotop GmbH
Köferinger Str. 5
93083 Obertraubling-Gebelkofen

Manufacturer
COORSTEK
Advanced Materials France
Z.I.n° 1- Rue de l'Industrie
EVREUX Cedex

Approved on
21 December 2012

Assessment

The air-injector flatfan nozzle ALBUZ CVI 80-01 (ceramics, plastic-coated, orange) 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 2.0 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 8169. The colour coding 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 (BCPC-Standard)
2.0	0.32	1.88 %	very coarse
4.0	0.45	-2.42 %	coarse
6.0	0.56	-4.97 %	coarse
8.0	0.64	-3.57 %	medium
10.0	0.72	-4.59 %	medium
12.0	0.79	-	medium
15.0	0.88	-3.03 %	fine
20.0	1.02	-	fine

Loss reducing properties: Included in the list „Loss reducing equipment“ (26 July 2013)

Drift reducing classification	operating range	Type of equipment and drift reducing parts	Regulations for use
50 %	Orchards	Sprayers with nozzle Albus CVI 80-01	Max. spray pressure 5 bar. For the initial first 5 rows, outwardly directed air support must be rendered ineffective. Apart from that, the sprayers have to be adjusted according to the JKI-instructions for adjustment for an optimum distribution of spray deposit.

Field test: The nozzles were used in the year 2012 on a total of 63 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 1-2.3.1:2008) and of ISO 5682-1:1999. The requirements of EN 12761-2:2002 and of JKI-Guideline 1-2.1:2010 were fulfilled.

Field testing:

Obstbau, Versuchs- und Beratungszentrum Jork, OVB
Moorende 53, 21635 Jork

Technical testing:

Institut für Anwendungstechnik
im Pflanzenschutz des
Julius Kühn-Instituts, Messeweg 11-12
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