



# TEST REPORT

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



**Double - Flatfan nozzle ALBUZ CVI TWIN 110-025  
(Ceramics, plastic-coated, lilac)**

**Approved for spraying field crops**

**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 double-flatfan nozzle ALBUZ CVI TWIN 110-025 (Ceramics, plastic-coated, 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 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 6.0 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	Evenness of cross distribution at (cm) 40 / 50 / 60 (Vk %)	Droplet spectrum (BCPC-Standard)
1.5	0.71	+ 4.28 %	6.7 / 6.2 / 3.3	very coarse
2.0	0.82	- 2.87 %	- / 3.8 / -	very coarse
3.0	1.01	+ 3.68 %	5.5 / 7.2 / 5.4	very coarse
4.0	1.16	-	- / 6.4 / -	coarse
5.0	1.30	-	- / 4.7 / -	coarse
6.0	1.42	+ 2.80 %	- / 3.5 / -	coarse

## Loss reducing properties

Included in the list „Loss reducing equipment“ (4 April 2013)

Drift reducing classification	Type of equipment and drift reducing parts	Regulations for use
50 %	Fieldsprayers with nozzle Albu CVI Twin 110-025	First 20 m from field edge spraying with max. 3.0 bar, Nozzle height above target 50 cm
75 %	Fieldsprayers with nozzle Albu CVI Twin 110-025	First 20 m from field edge spraying with max. 2.0 bar, nozzle height above target 50 cm

## Field test

The nozzles were used in the year 2012 on a total of 2455 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 (Guideline 1-2.3.1:1999) and of ISO 5682-1:1999. The requirements of EN 12761-2:2002 and of JKI-Guideline 1-2.1:2004 were fulfilled.

### Field testing:

Dienstleistungszentrum Ländlicher Raum  
Rheinessen-Nahe-Hunsrück  
Rüdesheimer Str. 60-68  
55545 Bad Kreuznach

### Technical testing:

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Messeweg 11-12,  
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