



TEST REPORT

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



**Offcenter flatfan nozzle Agrotop AirMix OC 80-02
(plastic, yellow) in combination with Agrotop TurboDrop HiSpeed
110-025 or ALBUZ CVI Twin 110-025**

**Approved for spraying field crops
used at the end of the spray boom**

Applicant and Manufacturer
Agrotop GmbH
Köferinger Strasse 5
93083 Obertraubling-Gebelkofen

Approved on
15 January 2015

Assessment

The offcenter flatfan nozzle Agrotop AirMix OC 80-02 (plastic, yellow) was tested without accessories. The nozzle is suitable for spraying field crops, provided that the following technical requirements are fulfilled:

1. Usage of the nozzle at the end of the spray boom in combination with Agrotop TurboDrop HiSpeed 110-05 or ALBUZ CVI Twin 110-025,
2. Installation in a spray boom with a sufficient and a steady amount of liquid flow,
3. 500 mm nozzle spacing,
4. 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),
5. Spray pressure – measured in front of the nozzle – between 1.5 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 dimensions of the nozzle tip comply with standard ISO 8169. The colour coding comply with standard ISO 10625. When using the offcenter nozzle the regulations for use (pressure range and target surface distance) of the respective main nozzle must be observed.

| Pressure (bar) | Liquid flow volume without accessories (l/min) | Max. deviation of single nozzle flow from the dosage tables | Droplet spectrum (BCPC-Standard) |
|----------------|--|---|----------------------------------|
| 1.0 | 0.94 | 4.85 % | very coarse |
| 2.0 | 1,33 | - | very coarse |
| 3.0 | 1.63 | 3.31 % | very coarse |
| 4.0 | 1.88 | - | coarse |
| 5.0 | 2.10 | - | coarse |
| 6.0 | 2.30 | 2.21 % | coarse |
| 7.0 | 2.49 | - | - |
| 8.0 | 2.66 | 2.47 % | - |

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.

Loss reducing properties

Included in the list „Loss reducing equipment“ (as of 23 March 2015)

| Drift reducing classification | Type of equipment and drift reducing parts | Regulations for use |
|-------------------------------|---|---|
| 50 % | Fieldsprayers with Agrotop TurboDrop HiSpeed 110-025 in combination with Agrotop AirMix OC 02 | First 20 m from field edge spraying with max. 6.0 bar, nozzle height above target 50 cm |
| 50 % | Fieldsprayers with ALBUZ CVI Twin 110-025 in combination with Agrotop AirMix OC 02 | First 20 m from field edge spraying with max. 3.0 bar, nozzle height above target 50 cm |
| 75 % | Fieldsprayers with Agrotop TurboDrop HiSpeed 110-025 in combination with Agrotop AirMix OC 02 | First 20 m from field edge spraying with max. 3.0 bar, nozzle height above target 50 cm |
| 75 % | Fieldsprayers with ALBUZ CVI Twin 110-025 in combination with Agrotop AirMix OC 02 | First 20 m from field edge spraying with max. 2.0 bar, nozzle height above target 50 cm |

Field testing:

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Technical testing:

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