

# TEST REPORT



Report no. G 1637

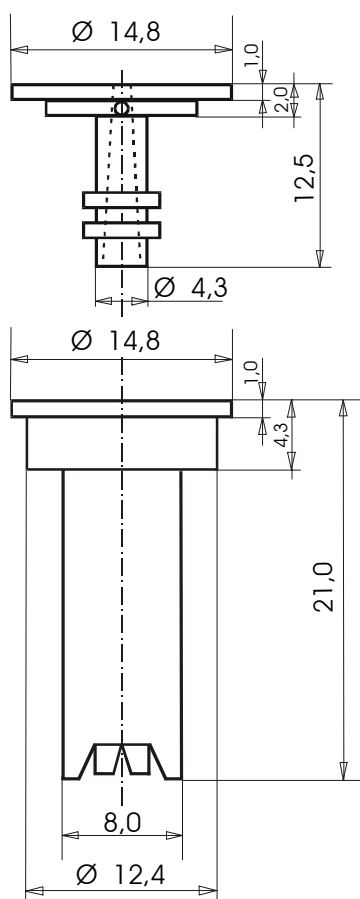
Of the  
Federal Biological Research Centre  
for Agriculture and Forestry  
Braunschweig

Mitglied des

**ENTAM**

European Network for Testing  
Agricultural Machinery

## Nozzle tip



Flatfan nozzle AIRMIX 110 03 ( plastic, blue)

Approved for spraying field crops

**Manufacturer and applicant**  
Agrotop GmbH  
Köferinger Strasse 5  
D - 93083 Obertraubling-Gebelkofen

**Approved on**  
**14 January 2002**

Approval is granted for a period of five years, it may be renewed.

## Assessment

The flatfan nozzle Agrotop AirMix 110 03 (plastic, blue) was tested without accessories. The nozzle is suitable for spraying field crops, provided that the following technical requirements are complied with:

1. Installation in spray boom with sufficient and consistent amount of fluid,
2. 500 mm nozzle spacing,
3. 50 cm and 75 cm from the nozzles to the spraying area (consistency of transverse distribution proved satisfactory at a distance of 40 cm to 90 cm),
4. Spray pressure – measured in front of the nozzle - between 1.5 and 6.0 bar; liquid volume flux per nozzle as stated in the 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 DIN 11215 from July 1978.

| Pressure<br>(bar) | Liquid volume flux<br>with and without filter<br>(l/min) | Droplet spectrum |
|-------------------|--|------------------|
| 1.5               | 0.85   | very coarse      |
| 2.0               | 0.98   | coarse           |
| 2.5               | 1.10   |                  |
| 3.0               | 1.20   | coarse           |
| 3.5               | 1.30   |                  |
| 4.0               | 1.39   | coarse           |
| 4.5               | 1.48   |                  |
| 5.0               | 1.56   | coarse           |
| 5.5               | 1.63   |                  |
| 6.0               | 1.70   | coarse           |

## Loss reducing properties

Included in the list "Loss reducing equipment" (23 May 2001)

| Drift reducing classification | Type of equipment and drift reducing facilities  | Regulations for use   |
|-------------------------------|--|---|
| 50 %                          | Field sprayers with nozzle Agrotop AIRMIX 110-03 | Within a margin of 20 m spraying is only allowed using a pressure of up to 2 bar with a distance to the target area of 50 cm. |

### Field testing:

State Office for Plant Production and Plant Protection  
Essenheimer Strasse 144  
D - 55128 Mainz

### Technical testing:

Application Techniques Division of the  
Federal Biological Research Centre  
Messeweg 11-12,  
D - 39104 Braunschweig

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