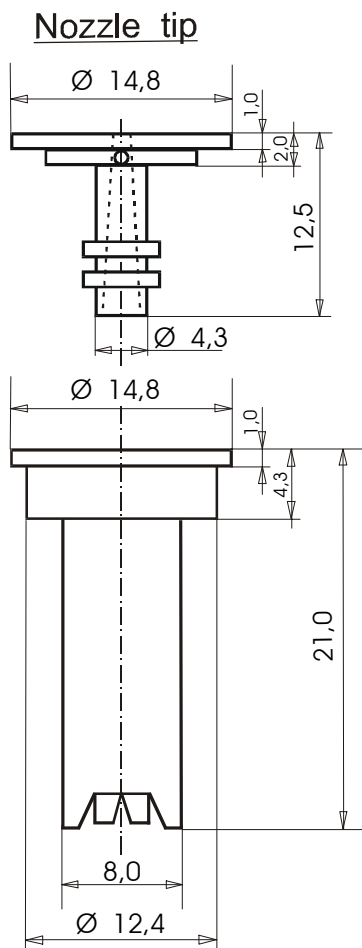




Report no. G 1631

TEST REPORT

Of the
Federal Biological Research Centre
for Agriculture and Forestry
Braunschweig



Flatfan nozzle AIRMIX 110 04 (plastic, red)

Approved for spraying field crops

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

Approved on
17. January 2001

Assessment

The flatfan nozzle Agrotop AirMix 110 04 (plastic, red) was tested with and without filter Agrotop 116 F 50 M. 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 1.0 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 (bar)	Liquid volume flux with and without filter (l/min)	Droplet spectrum
1.0	0.89	very coarse
1.5	1.09	
2.0	1.26	very coarse
2.5	1.41	
3.0	1.54	very coarse
3.5	1.66	
4.0	1.78	coarse
4.5	1.89	
5.0	1.99	coarse
5.5	2.09	
6.0	2.18	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 110-04	Within a margin of 20 m – calculation based on the buffer zones to be adhered to according to the directions for use of the respective plant protection product – spraying is only allowed using a pressure of 2 bar, distance to target area is 50cm
75 %	Field sprayers with nozzle Agrotop AirMix 110-04	Within a margin of 20 m – calculation based on the buffer zones to be adhered to according to the directions for use of the respective plant protection product – spraying is only allowed using a pressure of 1 bar, distance to target area is 50cm

Field testing:

Bavarian State Office for Soil cultivation and Plant Production – Plant Protection Division –
Menzinger Str. 54
D - 80638 München

Technical testing:

Application Techniques Division of the Federal Biological Research Centre
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