TEST REPORT



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Flatfan nozzle UR110-04 (stainless steel, plastic coated, red)

Approved for spraying field crops

Applicant and Manufacturer Wilger Inc. Seahorse Drive 255 TN 38351 Lexington USA

G 2184

Approved on 4 March 2021

Assessment

The flatfan nozzle WILGER UR110-04 (stainless steel, plastic coated, red) 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 eveness 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 2.0 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 nozzles have a bayonet cap. They fit on TeeJet nozzle bodies using an adapter. The colour coding of the nozzle 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 (ISO 25358)
2.0	1.27	4.05 %	5.2 / 5.1 / 7.9	extreme coarse
3.0	1.56	-4.56 %	- / 4.7 / -	extreme coarse
4.0	1.80	-4,87 %	4.2 / 4.2 / 3.5	extreme coarse
5.0	2.01	-	- / 4.0 / -	very coarse
6.0	2.20	-4,96 %	-/3.8/-	very coarse

Loss reducing properties

Included in the list "Loss reducing equipment" (15 July 2021)

Drift reducing	Type of equipment and drift	Regulations for use
classification	reducing parts	
50 %	Field sprayer with nozzle Wilger UR110-04	First 20 m from field edge spraying with max. 6.0 bar, nozzle
		height above target 50 cm.
75 %	Field sprayer with nozzle Wilger UR110-04	First 20 m from field edge spraying with max. 3.0 bar, nozzle
		height above target 50 cm.

Field test

The nozzles were used in the year 2020 on a total of 483 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 (JKI-Guideline 2-1.1:2013) and of ISO 5682-1:1999. The requirements of ISO 16119-2:2013 and of JKI-Guideline 1-2.1:2013 were fulfilled.

Field testing:

Landwirtschaftskammer Niedersachsen Pflanzenschutzamt Wunstorfer Landstraße 9 30453 Hannover <u>Technical testing:</u>
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