TEST REPORT



Julius Kühn-Institut

Federal Research Institute for Cultivated Plants, Braunschweig



Flatfan nozzle DR 110-03 (stainless steel, plastic coated, blue)

Approved for spraying field crops

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

G 2181

Approved on 8 January 2020

Assessment

The flatfan nozzle WILGER DR 110-03 (stainless steel, plastic coated, blue) 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 an integrally formed bayonet cap. They fit onto TeeJet nozzle bodies using an adapter. The colour coding of the nozzle comply with standard ISO 10625.

Pressure	Liquid flow volume	Max. deviation of	Evenness of cross	Droplet spectrum
(bar)		single nozzle flow from	distribution at (cm)	(ISO 25358)
	(l/min)	the dosage tables	40 / 50 / 60	
			(Vk %)	
2.0	0.93	-1.95 %	7.2 / 6.2 / 5.9	very coarse
3.0	1.13	-2.40 %	- / 5.4 / -	very coarse
4.0	1.31	3.98 %	5.6 / 5.3 / 4.8	very coarse
5.0	1.46	3.70 %	- / 5.4 / -	coarse
6.0	1.60	-	- / 5.3 / -	coarse

Field test

The nozzles were used in the year 2019 on a total of 400 hectares in field crops, a sufficient effect of the plant protective measures was confirmed.

Basics for testing

30453 Hannover

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.

<u>Field testing:</u>
Landwirtschaftskammer Niedersachsen
Pflanzenschutzamt
Wunstorfer Landstraße 9

<u>Technical testing:</u>
Institute for Application Technique in Plant Protection
Messeweg 11-12,
38104 Braunschweig

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