TEST REPORT



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Flatfan nozzle John Deere PSLDACQ2003 (ceramics, plastic-coated, blue)

Approved for spraying field crops

Applicant
Hypro EU LTD
Station Road
Longstanton
CB24 3DS CAMBRIDGE, UK

G 2208/

ÜG 1800

Manufacturer Approved on Lechler GmbH 8. April 2021
Präzisionsdüsen – Tropfenabscheider
Ulmer Strasse 128
72555 Metzingen

Assessment

The flatfan nozzle John Deere PSLDACQ2003 (ceramics, plastic-coated, blue) was tested with filter and bayonet cap. 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 90 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 key width of 8 mm. The dimensions of the nozzle tip comply with standard ISO 8169. The colour coding of the nozzle comply with standard ISO 10625.

Pressure	Liquid flow volume	Max. deviation of	Evenness of cross	Droplet spectrum
(bar)	without accessories	single nozzle flow from	distribution at (cm)	(BCPC-Standard)
	(l/min)	the dosage tables	40 / 50 / 60 / 75 / 90	
			(Vk %)	
2.0	0.96	-	- / 5.3 / - / 6.3 / -	very coarse
3.0	1.18	-2.75 %	3.4 / 5.2 / 6.8 / 2.5 / 4.1	coarse
4.0	1.36	2.42 %	- / 6.4 / - / 2.7 / -	coarse
5.0	1.52	-	4.9 / 6.1 / - / 3.4 / -	coarse
6.0	1.67	4.51 %	- / 5.3 / - / 3.5 / -	coarse

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:

<u>Technical testing:</u>
Institute for Application Technique in Plant Protection

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