TEST REPORT



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Flatfan nozzle John Deere PSLDACQ2004 (ceramics, plastic-coated, red)

Approved for spraying field crops

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

G 2209 /

ÜG 1801

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

Assessment

The flatfan nozzle John Deere PSLDACQ2004 (ceramics, plastic-coated, red) 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 1.5 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 %)	
1.5	1.11	-1.67 %	6.7 / 4.1 / 6.3 / 7.2 / 2.0	very coarse
2.0	0.96	-	- / 4.2 / - / 3.3 / -	very coarse
3.0	1.18	1.45 %	4.5 / 6.8 / 4.8 / 2.6 / 3.5	very coarse
4.0	1.36	1.59 %	- / 5.7 / - / 3.0 / -	very coarse
5.0	1.52	-	- / 4.5 / - / 3.0 / -	coarse
6.0	1.67	1.69 %	-/3.7/-/2.8/-	coarse

Loss reducing properties

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

Drift reducing classification	Type of equipment and drift reducing parts	Regulations for use
50 %	Fieldsprayers with John Deere PSLDACQ2004	First 20 m from field edge spraying with max. 3.0 bar, nozzle height above target 50 cm.
75 %	Fieldsprayers with John Deere PSLDACQ2004	First 20 m from field edge spraying with max. 2.0 bar, nozzle height above target 50 cm.
90 %	Fieldsprayers with John Deere PSLDACQ2004	First 20 m from field edge spraying with 1.5 bar, nozzle height above target 50 cm.

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:

Technical testing:

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