TEST REPORT



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Flatfan nozzle Lechler ID-120-04 POM (plastic, red)

Approved for spraying field crops

Applicant and Manufacturer Lechler GmbH Präzisionsdüsen – Tropfenabscheider Ulmer Strasse 128 72555 Metzingen Approved on 10 January 2014

Assessment

The flatfan nozzle Lechler ID-120-04 POM (plastic, 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 8.0 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 10 mm. The dimensions of the nozzle tip comply with standard ISO 8169. The colour coding of the nozzle comply with standard ISO 10625. For the application on the edges Lechler recommends the use of the nozzle IS 80-025 POM as last nozzle in the spray boom.

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	
			(Vk %)	
2.0	1.30	4.43 %	4.5 / 6.3 / 2.5	very coarse
3.0	1.59	-	3.5 / 3.0 / 4.8	very coarse
4.0	1.84	3.19 %	4.7 / 4.4 / 2.8	very coarse
5.0	2.05	-	-/3.6/-	very coarse
6.0	2.25	3.92 %	- / 3.0 / -	very coarse
7.0	2.43	-	-/-/-	very coarse
8.0	2.60	3.20 %	- / 2.6 / -	coarse

Loss reducing properties

Included in the list "Loss reducing equipment" (as of 23 March 2015)

Drift reducing classification	Type of equipment and drift reducing parts	Regulations for use
50 %	Fieldsprayers with Lechler ID-120-04 POM	With a target surface distance of 50 cm to the maximum pressure (8.0 bar).
75 %	Fieldsprayers with Lechler ID-120-04 POM	First 20 m from field edge spraying with max. 6.0 bar, nozzle height above target 50 cm
90 %	Fieldsprayers with Lechler ID-120-04 POM	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 2014 on a total of 1000 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:

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