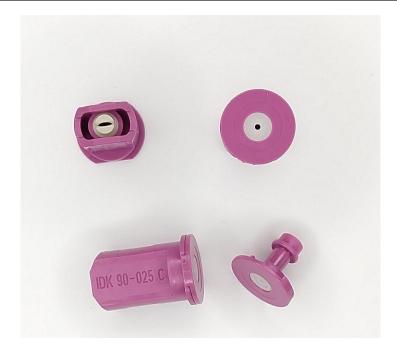
# TEST REPORT of the Julius Kühn-Institut G 2300 KERKAMMA



Injector - Flatfan nozzle Lechler IDK 90-025 C (ceramics, plastic-coated, lilac)

> Approved for spraying field crops with 250 mm nozzle spacing

Applicant and Manufacturer Lechler GmbH Präzisionsdüsen - Tropfenabscheider Ulmer Strasse 128 72555 Metzingen Approved on 21. January 2022

### **Assessment**

The injector flatfan nozzle Lechler IDK 90-025 C (ceramics, plastic-coated, lilac) 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. 250 mm nozzle spacing,
- 3. 40 cm between nozzles and spray target (consistency of eveness of cross distribution proved satisfactory at a distance range from 30 cm to 50 cm),
- 4. Spray pressure measured in front of the nozzle between 1.5 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 8 mm. 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	30 / 40 / 50 (Vk %)	
1.5	0.70	-4.08 %	4.6 / 3.8 / 5.6	extreme coarse
2.0	0.80	-	- / - / -	extreme coarse
3.0	0.99	-4.48 %	- / 6.0 / -	very coarse
4.0	1.14	-	2.8 / 5.9 / 2.7	coarse
5.0	1.27	-4.98 %	- / 5.0 / -	coarse
6.0	1.39	-	- / 3.9 / -	medium
8.0	1.61	-4.96 %	- / 3.1 / -	medium

#### Loss reducing properties

Included in the list "Loss reducing equipment" (as of 11 May 2022)

	Drift reducing classification	Type of equipment and drift reducing parts	Regulations for use
ſ	95 %	Fieldsprayers with a distance from nozzle to	First 20 m from field edge spraying with max. 2.0 bar, nozzle
		nozzle of 25 cm with Lechler IDK 90-025 C	height above target 40 cm.

## Field test

The nozzles were used on a wear test bench in 2021.

#### 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.

<u>Field testing:</u> Landwirtschaftskammer Nordrhein-Westfalen Pflanzenschutzdienst, Ref. 62 Nevinghoff 40 48147 Münster <u>Technical testing:</u> Institut für Anwendungstechnik im Pflanzenschutz des Julius Kühn-Instituts Messeweg 11-12, 38104 Braunschweig © JKI, August 2022