



TEST REPORT

of the
Julius Kühn-Institut
Federal Research Institute
for Cultivated Plants, Braunschweig



**Offcenter flatfan nozzle Lechler IDKS 80-06 (plastic, grey) in
combination with Lechler IDK 120-06 POM or IDKT 120-06 POM**

**Approved for spraying field crops
used at the end of the spray boom**

Applicant and Manufacturer

Lechler GmbH
Präzisionsdüsen – Tropfenabscheider
Ulmer Strasse 128
72555 Metzingen

**Approved on
14 January 2015**

Assessment

The offcenter flatfan nozzle Lechler IDKS 80-06 POM (plastic, grey) was tested without accessories. The nozzle is suitable for spraying field crops, provided that the following technical requirements are fulfilled:

1. Usage of the nozzle at the end of the spray boom in combination with Lechler IDK 120-06 POM or IDKT 120-06 POM,
2. Installation in a spray boom with a sufficient and a steady amount of liquid flow,
3. 500 mm nozzle spacing,
4. 50 cm between nozzles and spray target (consistency of evenness of cross distribution proved satisfactory at a distance range from 40 cm to 60 cm),
5. Spray pressure – measured in front of the nozzle – between 1.0 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 does not comply with standard ISO 10625.

Pressure (bar)	Liquid flow volume without accessories (l/min)	Max. deviation of single nozzle flow from the dosage tables	Droplet spectrum (BCPC-Standard)
1.0	1.15	-	very coarse
1.5	1.41	3.10 %	
2.0	1.62	-	very coarse
2.5	1.81	-	
3.0	1.99	2.88 %	very coarse
3.5	2.15	-	
4.0	2.29	-	very coarse
4.5	2.43	-	
5.0	2.57	-	very coarse
5.5	2.69	-	
6.0	2.81	1.63 %	very 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 IDK 120-06 POM or IDKT 120-06 POM in combination with Lechler IDKS 80-06 POM	Spraying with max. 6.0 bar, nozzle height above target 50 cm
75 %	Fieldsprayers with Lechler IDK 120-06 POM in combination with Lechler IDKS 80-06 POM	First 20 m from field edge spraying with max. 3.0 bar, nozzle height above target 50 cm
75 %	Fieldsprayers with Lechler IDKT 120-06 POM in combination with Lechler IDKS 80-06 POM	First 20 m from field edge spraying with max. 2.0 bar, nozzle height above target 50 cm
90 %	Fieldsprayers with Lechler IDK 120-06 POM or IDKT 120-06 POM in combination with Lechler IDKS 80-06 POM	First 20 m from field edge spraying with max. 1.0 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:

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Technical testing:

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