



TEST REPORT

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



**Flatfan nozzle PSLDMQ2006
(Plastic, gray)**

Approved for spraying field crops

Applicant and Manufacturer
HYPRO EU LTD
Station Road, Longstanton
CAMBRIDGE CB4 5DS
GROSSBRITANNIEN

Approved on
22 May 2019

Assessment

The flatfan nozzle Hypro PSLDMQ2006 (plastic, gray) was tested with an integrated filter. 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. 60 cm between nozzles and spray target (consistency of evenness of cross distribution proved satisfactory at a distance range from 50 cm to 70 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 were provided with a bajonet cap (System TeeJet). The dimensions of the nozzle tip comply with standard ISO 8169. The colour coding of the nozzle comply with standard ISO 10625.

Pressure (bar)	Liquid flow volume without accessories (l/min)	Max. deviation of single nozzle flow from the dosage tables	Evenness of cross distribution at (cm) 50 / 60 / 70 (Vk %)	Droplet spectrum (ISO 25358)
1.5	1.75	-	5.0 / 4.3 / 2.6	Will be filled out later
2.0	1.99	3.79 %	- / 3.5 / -	
3.0	2.44	-	3.9 / 3.1 / 2.8	
4.0	2.81	4.69 %	- / 3.3 / -	
5.0	3.14	-	- / 3.4 / -	
6.0	3.44	3.19 %	- / 3.7 / -	
7.0	3.72	-	-	
8.0	3.98	-	- / 4.4 / -	

Field test

The nozzles were used in the year 2018 on a total of 1718 ha. 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:

Landwirtschaftskammer
Nordrhein-Westfalen
Pflanzenschutzdienst, Ref. 62
Nevinghoff 40
48147 Münster

Technical testing:

Institute for Application Technique in
Plant Protection
Messeweg 11-12,
38104 Braunschweig

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