



TEST REPORT

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



Flatfan nozzle Hypro ULDM130-025 (Plastic, lilac), identical to
John Deere PSULDM30025

Approved for spraying field crops

Applicant and Manufacturer

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

Approved on

2 March 2021

Assessment

The flatfan nozzle Hypro ULDM130-025 (Plastic, lilac) was tested without accessories and is identical to John Deere PSULDM30025. 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 evenness 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 tool width of 8 mm, but are optionally also available with a bayonet cap (TeeJet system). 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) 40 / 50 / 60 (Vk %)	Droplet spectrum (ISO 25358)
2.0	0.81	-	- / 3.4 / -	ultra coarse
3.0	0.99	2.97 %	2.6 / 6.0 / 6.5	ultra coarse
4.0	1.15	-	- / 5.8 / -	extreme coarse
5.0	1.28	2.83 %	- / 5.2 / -	extreme coarse
6.0	1.41	-	- / 4.8 / -	extreme coarse
7.0	1.52	-	-	very coarse
8.0	1.62	- 2.24 %	- / 4.3 / -	very coarse

Field test

The nozzles were used in the year 2020 on a total of 900 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 (Guideline 2-1.1:2013) and of ISO 5682-1:1999. The requirements of EN 16119-2:2013 and of JKI-Guideline 1-2.1:2013 were fulfilled.

Field testing:

Landwirtschaftskammer Niedersachsen
Pflanzenschutzamt
Wunstorfer Landstraße 9
30453 Hannover

Technical testing:

Institut für Anwendungstechnik im
Pflanzenschutz des
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Messeweg 11-12,
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