



TEST REPORT

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



Flatfan nozzle 6 MS 04 C
(ceramics, plastic coated, red)

Approved for spraying field crops

Applicant and Manufacturer
Agroplast
ul. Lubelska 243
22-107 SAWIN - POLEN

Approved on
14 January 2019

Assessment

The flatfan nozzle Agroplast 6 MS 04 C (ceramics, plastic coated, 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 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 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 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 (BCPC-Standard)
2.0	1.26	-4.15 %	5.1 / 5.0 / 5.3	very coarse
3.0	1.55	-	- / 5.3 / -	coarse
4.0	1.79	-5.30 %	5.9 / 4.7 / 3.6	coarse
5.0	2.00	-	- / 4.2 / -	medium
6.0	2.19	-4.94 %	- / 3.8 / -	medium

Loss reducing properties

Included in the list „Loss reducing equipment“ (9 April 2020)

Drift reducing classification	Type of equipment and drift reducing parts	Regulations for use
50 %	Field sprayer with nozzle Agroplast 6 MS 03 C	First 20 m from field edge spraying with max. 4.0 bar, nozzle height above target 50 cm

Field test

The nozzles were used in the year 2018 on a total of 4778 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:

Landesamt für Landwirtschaft,
Lebensmittelsicherheit und Fischerei
RD Groß Nemerow
OT Tollenseheim, Nr. 6a
17094 Groß Nemerow

Technical testing:

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

© JKI, April 2020