



TEST REPORT

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



Hollow cone nozzle Agrotop TVI 80-01
(Ceramics, plastic-coated, orange)

Approved for spraying orchards and vineyards

Applicant
Agrotop GmbH
Köferinger Str. 5
93083 Obertraubling-Gebelkofen

Manufacturer
COORSTEK
Advanced Materials France
Z.I.n° 1- Rue de l'Industrie
EVREUX Cedex

Approved on
23. April 2018

Assessment

The hollow cone nozzle TVI 80-01 (ceramics, plastic-coated, orange) was tested without accessories. The nozzle is suitable for orchards and vineyards, provided that the following technical requirements are fulfilled:

1. Installation in nozzle tubes with sufficient and a steady amount of liquid flow,
2. Spray pressure – measured in front of the nozzle – between 5.0 and 25.0 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 dimensions of the nozzle tip comply with standard ISO 8169. The colour coding of the nozzle tip 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)
5.0	0.52	-2.20 %	very coarse
7.0	0.61	-	very coarse
8.0	0.66	3.66 %	very coarse
10.0	0.73	2.89 %	very coarse
12.0	0.80	-	very coarse
14.0	0.87	2.79 %	-
16.0	0.93	-	-
18.0	0.98	-	-
20.0	1.04	-	-
22.0	1.09	-	-
24.0	1.14	-	-
25.0	1.16	-	-

Field test

The nozzles were used in the year 2015 on a total of 299 hectares in orchards, 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:

Obstbauversuchs- und Beratungszentrum
Moorende 53
21635 Jork

Technical testing:

Institut für Anwendungstechnik im
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