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Equipment for crop protection — Antidrip devices — Determination of performance

Matériel de protection des cultures — Antigouttes — Détermination des performances



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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 6686 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 6, *Equipment for crop protection*.

This second edition cancels and replaces the first edition (ISO 6686:1981), of which it constitutes a technical revision.

Annex A forms an integral part of this International Standard.

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Equipment for crop protection — Antidrip devices — Determination of performance

1 Scope

This International Standard specifies a test method to determine, on the one hand, the effect of fitting antidrip devices on nozzle flowrates, and, on the other hand, the opening and closing pressures.

It applies to antidrip devices of agricultural sprayer nozzles, except for hand-held or hand-operated sprayers.

2 Test liquid

2.1 Clean water, free from solids in suspension.

3 Apparatus

3.1 Pressure gauges, allowing the pressure to be measured with a precision of $\pm 1\%$ within the range of 0,03 MPa to 0,5 MPa.

3.2 Collection vessel for each nozzle.

3.3 Measuring cylinder or balance, to measure the quantity of liquid collected.

3.4 Stopwatch.

4 General test conditions

4.1 Temperature

The temperatures of the water and room air shall be between 10 °C and 25 °C.

4.2 Pressures

Each pressure of the liquid shall remain constant with a maximum deviation of $\pm 2,5\%$ about the mean pressure.

5 Tests

5.1 Uniformity of flowrates obtained with two nozzles and different antidrip devices of same type

5.1.1 Choice of nozzles

For a pressure of 0,3 MPa, choose one nozzle with a minimum flowrate of 1 l/min and one nozzle with a maximum flowrate of 5 l/min, where this maximum flowrate is at least three times the minimum flowrate.

The complete designation of the two nozzles used shall appear in the test report.

5.1.2 Sampling of antidrip devices

Select at random 20 antidrip devices of the same type from a batch of 200. The sampling conditions shall be indicated in the test report, in particular the stock size, the place of sampling, etc.

A second sampling of 20 antidrip devices shall be taken by an authorized person of a test centre, to cover the case of a problem with the first sample.

5.1.3 Test procedure

Measure, at the reference pressure of 0,3 MPa, the flowrate of both nozzles without the antidrip devices and the flowrates when the antidrip devices of the sample are attached in succession to the two nozzles.

The volume discharged shall be measured with an error of less than 1 %. The measuring time, measured with an error of less than 1 s, shall be at least 60 s.