

Equipment for crop protection — Test methods for air-assisted sprayers for bush and tree crops

ICS 65.060.40

National foreword

This British Standard reproduces verbatim ISO 9898:2000 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee AGE/15, Equipment for crop protection and application of liquid fertilizer, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii and iii, a blank page, pages 1 to 15 and a back cover.

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INTERNATIONAL STANDARD

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Equipment for crop protection — Test methods for air-assisted sprayers for bush and tree crops

*Matériel de protection des cultures — Méthodes d'essai des pulvérisateurs
à jet porté pour les arbustes et arbres fruitiers*



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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 9898 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 6, *Equipment for crop protection*.

Annex A forms a normative part of this International Standard.

Equipment for crop protection — Test methods for air-assisted sprayers for bush and tree crops

1 Scope

This International Standard specifies the methods for measuring the characteristics of mounted, towed and self-propelled air-assisted sprayers, including pneumatic sprayers, used for crop protection in bushes, vineyards and tree crops.

This International Standard specifies testing methods to define sprayers' performances in control conditions (laboratory) with respect to minimising the risk of environmental contamination.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 13441-1, *Air-assisted agricultural sprayers — Data sheets — Part 1: Typical layout*.

3 Test conditions

3.1 Sprayer settings

Tests shall be done with the machine in working order (grids, nozzles, deflectors, etc.).

3.2 Sprayer set-up

The deflector positions, the shapes and the orientation of the air outlet, the nozzle orientation and the other device modifying the air or the liquid distribution should be described in the report. Schematic diagrams and photographs can be used to describe the sprayer set-up.

3.3 Sprayer environment

There should be no obstacles within a distance of at least 5 m in the direction(s) of the outlet velocity.

3.4 PTO speed

The test shall be done at least for the nominal PTO (power take-off) speed (540 ± 5) r/min¹⁾.

1) (1000 ± 10) r/min in the case of sprayers operating at 1000 r/min.