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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 24683-2009

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

植物保护机械 灌木和乔木作物用风送式喷雾机 试验方法

(English Translation)

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Foreword

This standard is equivalent to using ISO 9898:2000 "Test methods of plant protection machinery shrubs and tree crop sprayer with a breeze" (In English).

This standard is equivalent translation ISO 9898:2000.

For ease of use, this standard made the following editorial changes.

--- "This International Standard" by "this standard";

--- Deleted international standards foreword;

--- ISO 9898:2000 international standard referenced with the international standard has been adopted as a standard in place of the corresponding country;

--- Spray pressure unit with "MPa" instead of "bar";

--- With a decimal point "." As an alternative to the decimal point "." Appendix A of this standard is a normative appendix.

The standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee (SAC/TC201) Agricultural machinery centralized.

This standard was drafted. Chinese Academy of Agricultural Mechanization Sciences,

Ministry of Agriculture, Nanjing Agricultural Mechanization Institute, Jiangsu University,
Taizhou Regal Agricultural Machinery Co., Ltd.

1 Scope

This standard specifies the characteristics and test methods for determination of shrubs, trees and vineyard crops with breeze-mounted sprayer.

This standard applies to suspended, towed and self-propelled sprayer breeze (including pneumatic atomizing spray machine).

This standard specifies the test methods (laboratory) tests sprayer performance under controlled conditions to reduce the risk of environmental pollution as possible.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 20083.1-2006 breeze agricultural sprayer - Data sheets - Part 1. Typical format (ISO 13441-1:1997, MOD)

3.1 Adjustment of sprayer

Testing should be performed at the machine (rectifier gate, nozzle, deflector, etc.) normal working condition.

Structure 3.2 Sprayer the position of the deflector, the shape and direction of airflow outlet nozzle direction, as well as other means to improve the distribution of air or liquid are it shall be set forth in the report. You can use the sprayer pictures and schematics describing the structure of the sprayer.

3.3 Sprayer environment

Spray outlet direction should not be any obstacle within 5m.

3.4 PTO speed

Testing should be conducted at least at the rated speed of the power output shaft (540 ± 5) r/min.

NOTE: If the sprayer is rated speed 1000r/min operation, the power output shaft speed (1000 ± 10) testing r/min.

3.5 Sprayer gearbox

If the fan drive power transmission system includes a transmission, then the test should cover all of the gear box gear and should be measured Power output shaft speed and fan speed.

3.6 Installation angle adjustable fan

For adjustable fan blade mounting angle, at least at the angle recommended by the manufacturer for testing. If the manufacturer does not recommend the blade angle, Intermediate position adjustment range should be used or the angle closest to the middle position for testing.

3.7 Degree of opening of adjustable fan outlet

With adjustable air outlet opening of the sprayer, at least you should use the manufacturer's recommended outlet width test. If the manufacturer does not push Recommended outlet width, should be in the middle of the adjustment range, or the degree of opening closest to the middle position will be.

3.8 Equipped with axial fans of tractor-mounted sprayer

It should indicate the height of the fan shaft in the report.

3.9 Test liquid

Use tap water. To test the use of tracers or dyes, the report should be written.

GB/T 24683-2009/ISO 9898:2000