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

GB/T 39515.1-2020

**Agricultural and forestry machinery. Environmental
requirements for sprayers - Part 1: General**

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Foreword

GB/T 39515 "Environmental Requirements for Agricultural and Forestry Machinery Sprayers" is divided into 4 parts:

---Part 1: General requirements;

---Part 2: Horizontal boom sprayer;

---Part 3: Sprayers for shrubs and trees crops;

---Part 4: Stationary and semi-mobile sprayers:

This part is Part 1 of GB/T 39515:

This section was drafted in accordance with the rules given in GB/T 1:1-2009:

The translation method used in this part is equivalent to ISO 16119-1:2013 Environmental Requirements for Agricultural and Forestry Machinery Sprayers Part 1: General Requirements

begging":

The Chinese documents that have a consistent correspondence with the international documents cited in this section are as follows:

---GB 10395:6-2006 Agricultural and forestry tractors and machinery safety technical requirements Part 6: Plant protection machinery

(ISO 4254-6:1995,MOD)

---GB/T 18676-2009 Plant protection machinery sprayer (applier) nozzle identification color coding (ISO 10625:2005,

IDT)

---GB/T 20085-2006 Plant protection machinery vocabulary (ISO 5681:1992, MOD)

---GB/T 32243-2015 Plant protection machinery sprayer (filter) filter identification color coding (ISO 19732:

2007, IDT)

This part was proposed by China Machinery Industry Federation:

This part is under the jurisdiction of the National Agricultural Machinery Standardization Technical Committee (SAC/TC201):

Drafting organizations of this section: Nanjing Woyang Machinery Technology Co., Ltd., Wuhu Duoja Agricultural Technology Co., Ltd., China Rural Technology Development Development Center, China Academy of Agricultural Mechanization Science, National Agricultural Technology Extension Service Center:

Introduction

When spraying pesticides, it is particularly important to consider biological, ecological and economic factors: For this reason, the comprehensive knowledge of spraying liquid medicine (including its use

Limitations of use) and a proper sprayer are necessary:

GB/T 39515 specifies the minimum requirements for sprayers, with special emphasis on minimizing potential environmental pollution risks, mainly focusing on

The following aspects:

---Deposition and distribution of liquid medicine on the target;

--- Minimize the inadvertent spread of liquid medicine to the surrounding environment;

---Improvement in the use and operation of plant protection machinery:

Environmental requirements for agricultural and forestry machinery sprayers

Part 1: General requirements

1 Scope

This part of GB/T 39515 specifies general requirements for the design and performance of sprayers (see ISO 5681 definition) to minimize the use of

The potential environmental pollution risks in the process of using sprayers include the risks that the manufacturer can foresee: This part also specifies the identification of sprayers and their

Requirements for certain components and minimum requirements for the contents of the manual:

This section applies to all types of sprayers except for backpack sprayers in agriculture, horticulture, forestry and other fields: This part and

Each other part of GB/T 39515 is used together, and the other parts specify the specific requirements for a specific type of sprayer (see Appendix A):

This section does not contain safety aspects: For safety requirements, see ISO 4254-6:

Note: ISO :19932 gives the safety and environmental requirements of knapsack sprayers:

This section does not apply to sprayers manufactured before the release date:

2 Normative references

The following documents are indispensable for the application of this document: For dated reference documents, only the dated version applies to this article

Pieces: For undated references, the latest version (including all amendments) applies to this document:

ISO 4254-6:2009 Agricultural and forestry tractors and machinery safety technical requirements Part 6: Plant protection machinery (Agricultural

machinery-Safety-Part 6: Sprayers and liquid fertilizer distributors)

ISO 5681:1992 Equipment for crop protection-Vocabulary
(Equipment for crop protection-Vocabulary)

ISO 10625 Plant protection machinery sprayer (applier) spray nozzle color coding
(Equipment for crop protection-

Sprayer nozzles-Colour coding for identification)

ISO 19732:2007 Plant protection machinery sprayer (filter) filter identification with color coding (Equipment for crop pro-

tection-Sprayer filters-Colour coding for identification)

3 Terms and definitions

The terms and definitions defined in ISO 5681 apply to this document:

4 Technical requirements

4.1 General requirements

The sprayer and its parts should be reliable, and its design should conform to the intended use described in the manual to minimize potential environmental pollution

risk:

The sprayer design should be able to ensure the safe operation of the operator during the operation, and the spraying of pesticides should be stopped immediately at the operating position:

4:2 Inspection

You can connect the necessary measuring instruments to the sprayer to check its working conditions, for example, to provide suitable

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