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

GB/T 39515.4-2020

**Agricultural and forestry machinery. Environmental
requirements for sprayers - Part 4: Fixed and semi-mobile
sprayers**

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Standardization Administration**

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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 4 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 16119-4:2014 Environmental Requirements for Agricultural and Forestry Machinery Sprayers Part 4: Stationary

And semi-mobile sprayer:

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 10610-2009 Product Geometric Technical Specification (GPS) Surface structure profile method to evaluate the rules of surface structure

And method (ISO 4288:1996, IDT)

---GB/T 18520-2001 Plant protection mechanical sprayer nozzle and pressure gauge connection size (eqvISO 8169:

1984)

---GB/T 18675-2002 Determination of total residual liquid volume of agricultural sprayers for plant protection machinery (idtISO 13440:1996)

---GB/T 18678-2002 Plant protection machinery, agricultural sprayer (apparatus), the rated capacity of the liquid tank and the diameter of the filling hole (eqv ISO 9357:1990)

---GB/T 19792-2012 Agricultural irrigation equipment, hydraulic fertilizer-pesticide injection pump (ISO 13457:2008, MOD)

---GB/T 20084-2006 Plant protection mechanical sprayer connection thread (ISO 4102:1984, MOD)

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

---GB/T 20183:1-2006 Plant protection machinery spray equipment Part 1: Sprayer nozzle test method
(ISO 5682-1:1996, IDT)

---GB/T 20183:2-2006 Plant protection machinery spraying equipment Part 2: Hydraulic sprayer test method
(ISO 5682-2:1997, IDT)

---GB/T 20183:3-2006 Plant protection machinery spray equipment Part 3: Agricultural hydraulic sprayer liquid application per hectare
Regulation system test method (ISO 5682-3:1996, IDT)

---GB/T 24679:2-2020 Plant protection machinery knapsack sprayer Part 2: Safety and environmental requirements
(ISO :19932-1:2013, MOD)

---GB/T 24683-2009 Plant protection machinery, test method of air blower for bush and tree crops
(ISO 9898:2000, IDT)

---GB/T 24684:1-2009 Plant protection machinery evaluation cleaning system test method part 1: sprayer machine
Internal cleaning (ISO 22368-1:2004, IDT)

---GB/T 24684:3-2009 Plant protection machinery evaluation cleaning system test method Part 3: The inside of the chemical tank
Cleaning (ISO 22368-3:2004, IDT)

---GB/T 32242:1-2015 Plant protection mechanical inhalation dosing device Part 1: Test

method (ISO 21278-1:

2008, MOD)

---GB/T 32242:2-2015 Plant protection mechanical inhalation dosing device Part 2: General requirements and performance limits

(ISO 21278-2:2008,MOD)

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: Jiangsu University, Chinese Academy of Agricultural Mechanization Sciences, Nanjing Institute of Agricultural Mechanization, Ministry of Agriculture and Rural Affairs, Thailand

State Yingtian Agricultural Machinery Manufacturing Co., Ltd., Agricultural Machinery Test and Appraisal Station of the Ministry of Agriculture and Rural Affairs:

Introduction

The technical requirements of this part of GB/T 39515 are based on the test methods given in ISO 5682-2:1997: This standard is mainly used for

Hydraulic sprayer: For other types of sprayers, other test methods and/or test standards that may be required are the basis of GB/T 39515:

Part of the subject of future survey/revision:

This part is a Type C standard specified by ISO 12100:

This section points out the machinery-related hazards, dangerous states, dangerous events and their scope covered:

When the provisions of Type C standards are different from those of Type A or Type B standards as the basis, the provisions of Type C standards take precedence over those of other standards:

It is stipulated that the design and manufacture of machinery and tools shall follow the provisions of the Class C standard:

Environmental requirements for agricultural and forestry machinery sprayers

Part 4: Stationary and semi-mobile sprayers

1 Scope

This part of GB/T 39515 specifies the use of stationary and semi-mobile sprayers (see

definitions in 3:1 and 3:2) (including manufacturing

Manufacturers can foresee misuse) the technical requirements and verification methods to minimize the potential risk of environmental pollution:

This spray system is usually composed of independent components (main tank, pump and spraying device) assembled on a fixed device (fixed spray

Machine) or on a mobile device (semi-mobile sprayer):

This section does not apply to sprayers used for the treatment of confined spaces:

This part is used in conjunction with GB/T 39515:1 which specifies general requirements for the design and performance of various sprayers: As specified in this section

The requirements are different from those specified in GB/T 39515:1, and sprayers that fall within the scope of this section have priority to follow the provisions of this section: this

The part does not contain safety aspects: For safety requirements, see ISO 4254-6:

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:

GB/T 39515:1-2020 Environmental requirements for agricultural and forestry machinery sprayers Part 1: General requirements (ISO 16119-1:2013,

IDT)

ISO 4102:1984 Plant protection mechanical sprayer connection thread
(Equipment for crop protection-Sprayers-

Connection threading)

ISO 4254-6:2009 Safety of Agricultural Machinery Part 6: Sprayers and Liquid Fertilizers
(Agricultural machinery-

Safety-Part 6: Sprayers and liquid fertilizer distributors)

ISO 4288:1996 Product Geometric Technical Specification (GPS) Surface structure profile method for evaluating surface structure rules and methods

(Geometrical Product Specifications (GPS)-Surface texture: Profile method-Rules and procedures
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