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

GB/T 32250.4-2022

**Agricultural and forestry machinery - Inspection of sprayers in
use - Part 4: Fixed and semi-mobile sprayers**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents" drafted.

This document is part 4 of GB/T 32250 "Detection of Sprayers in Use for Agricultural and Forestry Machinery". GB/T 32250 has been released to the next part.

--- Part 1. General;

--- Part 2. Horizontal boom sprayers;

--- Part 3. Sprayers for shrub and tree crops;

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

This document is equivalent to ISO 16122-4:2015 "Testing of agricultural and forestry machinery in use sprayers - Part 4. Stationary and semi-mobile Sprayer".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

The sprayer is mainly used for spraying insecticides, herbicides, fungicides, defoliants and other plant protection products to prevent and control crop diseases, pests and weeds, improve

High yield per unit area plays an irreplaceable and important role, and it is widely used and involves a wide variety of products.

The sprayer sprays the plant protection product on the target with the goal of spraying only the amount required by the target, contaminating operators and off-target streams

The amount of drug lost to the environment is kept to a minimum. Under normal use and regular maintenance, a properly designed and well-made sprayer should be able to

Normal continuous operation. However, after the sprayer is used in the field, it often produces serious abrasion and damage, even in comparison with the level of agricultural production technology.

In advanced areas, it is also difficult to achieve adequate maintenance. Therefore, clarifying the use requirements and testing methods of the sprayer in use is beneficial to the use of the sprayer.

The test of spraying equipment, prolong the normal continuous operation time of the sprayer in use, reduce the use of pesticides, improve the safety and work efficiency.

At present, in terms of the safety of plant protection machinery and the potential risks of environmental pollution, there are GB 10395.6 "Agriculture and Forestry Tractors and Machinery

Machinery Safety Technical Requirements Part 6.Plant Protection Machinery, GB/T 39515 Environmental Requirements for Agricultural and Forestry Machinery Sprayers, etc.

Standard, the design and manufacture requirements and performance test methods of sprayer products are specified. However, standardizing the testing requirements and methods for in-use sprayers does not

Only the initial performance of the sprayer needs to be considered, but also factors such as use, maintenance and repair to ensure that the sprayer continues to perform in good condition.

According to the structure and product type of international standards, GB/T 32250 "Testing of Sprayers in Use of Agricultural and Forestry Machinery" currently consists of 4 parts constitute.

--- Part 1.General;

--- Part 2.Horizontal boom sprayers;

--- Part 3.Sprayers for shrub and tree crops;

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

This document is Part 4 of GB/T 32250 and is used together with GB/T 32250.1.

Inspection of agricultural and forestry machinery in-use sprayers

Part 4.Stationary and semi-mobile sprayers

1 Scope

This document is used together with GB/T 32250.1-2022 and specifies the technical requirements and tests for stationary and semi-mobile sprayers in use.

test method.

The technical requirements mainly relate to the potential risk of environmental pollution caused by the sprayer and the performance of the equipment to achieve good spraying results.

This document does not apply to sprayers for confined space treatment (eg fog machines).

Note. GB/T 32250.1-2022 specifies the protection requirements for inspectors during the test.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB/T 20183.2-2006 Plant Protection Mechanical Spray Equipment Part 2. Test Methods for Hydraulic Sprayers (ISO 5682-2.

1997, IDT)

GB/T 32250.1-2022 Testing of agricultural and forestry machinery in use sprayers - Part 1. General (ISO 16122-1.2015, IDT)

3 Terms and Definitions

The terms and definitions defined in GB/T 32250.1-2022 and the following apply to this document.

3.1

fixed sprayer

For spraying plant protection agents, one-piece construction, its pump/tank parts (see 3.3) and/or applicator (see 3.4) are not removable.

3.2

semi-mobile sprayer semi-mobile sprayer

For spraying plant protection agents, monolithic structure, its pump/solution tank part (see 3.3) and applicator (see 3.4) can be moved separately.

[Source. GB/T 39515.4-2020, 3.2]

3.3

Pump/tank unit pump/tankunit

Contains at least the parts of the pump and tank.

Note. The pump and tank can be combined components, or separate independent components.

3.4

applicator applicationunit

Consists of one or more spray heads/spray generators, with or without airflow assist, via spray hose and separate pump/reservoir

Parts are used together.

[Source. GB/T 39515.4-2020, 3.4]