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

GB/T 20346.2-2022

Replacing GB/T 20346.2-2006

**Equipment for distributing fertilizer - Part 2: Fertilizer
distributor in lines**

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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 2 of GB/T 20346 "Fertilization Machinery". GB/T 20346 has released the following parts.

--- Part 1. Full width fertilizer spreaders;

--- Part 2. Fertilizers between rows.

This document replaces GB/T 20346.2-2006 "Mechanical Test Methods for Fertilization - Part 2. Interrow Fertilizers", and

Compared with GB/T 20346.2-2006, in addition to structural adjustment and editorial changes, the main technical changes are as follows.

- a) Changed the scope of the standard (see Chapter 1, Chapter 1 of the 2006 edition);
- b) Added some terms and definitions (see 3.5 and 3.6);
- c) Added the product model representation method (see Chapter 4);
- d) Added technical requirements (see Chapter 5);
- e) Deleted the technical inspection and added the state and operation of the fertilizer applicator (see 6.1.1.2, 4.1.3 of the 2006 edition);
- f) Added test environmental conditions (see 6.2);
- g) Changed the content of static test (see 6.3.1.2, 5.1.1 of the 2006 edition);
- h) Added field test requirements (see 6.3.1.4);
- i) Changed the content of the accuracy test of the fertilization rate (see 6.3.4.1.2, 5.4.1.2 of

the.2006 edition);

j) Added performance test requirements (see 6.5);

k) Added other inspection requirements (see 6.6);

l) Added inspection rules (see Chapter 7);

m) Added instructions for use, marking, packaging, transportation and storage (see Chapter 8).

This document is drafted with reference to ISO 5690-2:1984 "Mechanical Test Methods for Fertilization - Part 2: Interrow Fertilizers", and the degree of consistency is

Not equivalent.

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

Introduction

Organic manure manure (fermented fertilizer) and granular fertilizer are important fertilizer sources for agricultural production.

It plays an important role in soil construction, increasing crop yield and improving quality. Organic fertilizer is an "environmentally friendly fertilizer" that meets the requirements of the times.

Water, save water, reduce water loss and evaporation, reduce the effect of drought, reduce fertilizer application, reduce salinity damage, condition soil, stimulate

The active rate of microorganisms in living soil can also overcome soil compaction, increase soil air permeability, and reduce land degradation and soil erosion caused by chemical fertilizers.

It can effectively promote plant growth and form high-standard farmland. GB/T 20346 aims to establish technical standards for the production and use of fertilizing machinery,

Consists of two parts.

--- Part 1: Full width fertilizer spreaders. The purpose is to provide technical basis for the design and manufacture of full width fertilizer spreader.

--- Part 2: Fertilizers between rows. The purpose is to provide technical basis for the design and manufacture of interrow fertilizer applicator.

Fertilizer applicators part 2: interrow applicators

1 Scope

This document specifies the product model representation method, technical requirements, test methods, inspection rules, instructions for use, standard

registration, packaging, transportation and storage.

The types of interrow spreaders included in this document are. mounted and trailed interrow spreaders matched with tractors.

This document is applicable to inter-row fertilizer applicators (hereinafter referred to as fertilizer applicators) that apply granular, spherical or similar organic fertilizers or chemical fertilizers.

This document does not apply to equipment that applies microparticle pesticides or herbicides.

The test methods specified in this document are deleted according to different models.

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 191 Graphical signs of packaging, storage and transportation

GB/T 3098.1-2010 Mechanical properties of fasteners Bolts, screws and studs

GB/T 3098.2-2015 Fasteners Mechanical Properties Nuts

GB/T 4269.1 Agricultural and forestry tractors and machinery, lawn and garden power machinery operator control mechanism and other display device symbols

No. Part 1.Common Symbols

GB/T 4269.2 Agricultural and forestry tractors and machinery, lawn and garden power machinery operator control mechanism and other display devices

Part 2.Symbols for agricultural tractors and machinery

GB/T 5262 General Provisions for Determination Methods of Agricultural Machinery Test Conditions

GB/T 5667 Agricultural Machinery Production Test Method

GB/T 6005-2008 Basic dimensions of test sieve wire woven mesh, perforated plate and electroformed sheet mesh

GB/T 9239.1-2006 Mechanical vibration constant state (rigid) rotor balance quality requirements - Part 1.Specifications and balance tolerance

test

GB/T 9480 Agricultural Tractors and Machinery, Lawn and Garden Power Machinery Instruction Manual Compilation Rules

GB/T 9482 Agricultural Machinery and Equipment Mechanical Loading Dimensions for Bulk Materials

GB 10395.1 Agricultural and Forestry Machinery Safety Part 1.General

GB/T 10395.3-2019 Agricultural and Forestry Machinery Safety Part 3.Solid Fertilizer Spreader

GB 10396 Agricultural and Forestry Tractors and Machinery, Lawn and Garden Power Machinery Safety Signs and Hazard Graphics General

GB/T 13306 Signs

GB/T 13566.1 Determination of bulk density of fertilizers - Part 1.Loose bulk density

GB/T 23821 Safety distance of machinery to prevent the upper and lower limbs from touching the danger zone

JB/T 5673 General technical conditions for painting of agricultural and forestry tractors and implements

3 Terms and Definitions

The following terms and definitions apply to this document.