



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

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**Agricultural machinery - Equipment for sowing - Minimization
of the environmental effects of fan exhaust from pneumatic
systems**

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Table of Contents

foreword

Introduction

1 Scope

2 Normative references

3 Terms and Definitions

4 Requirements

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 equivalent to ISO 17962:2015 "Agricultural machinery seeders reduce the environmental impact of the exhaust of pneumatic system fans":

This document adds a chapter "Normative References":

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

Introduction

This document was developed to study the minimization of the effects of seed coating dust during planting in planters equipped with pneumatic systems:

method: This coating dust may emit dust during the seeding process of the pneumatic system of the planter:

agricultural machinery planter

Reduce the environmental impact of the exhaust air of the pneumatic system fans

1 Scope

This document specifies methods for reducing the environmental impact of exhaust air from pneumatic seeding systems used for sowing coated seeds:

This document applies to pneumatic seeding systems where the "dust" in the seed coating is mixed with the intake air of the fan and discharged into the atmosphere:

This document does not apply to:

--- the gas delivery system between the central gas storage tank and the remote instrument;

---The instrument is located in the central gas storage tank and the gas is discharged through the ground opening device:

This document does not apply to pneumatic equipment for seeding produced prior to publication:

Note: Applicable to countries or regions with stricter environmental protection requirements:

2 Normative references

There are no normative references in this document:

3 Terms and Definitions

The following terms and definitions apply to this document:

3:1

direct drift (discharge) directdrift

The mass of the plant protection product that is expelled and deposited within a defined distance of the sowing area by the action of the air flow during the sowing process:

3:2

fanexhaustzone

Cylindrical boundary (static) used to define the exhaust of a pneumatic system fan:

3:3

Pneumatic (vacuum) seeding system vacuum-stylesowingsystem

Pneumatic system for metering seeds on planters using negative air pressure:

3:4

Zero distance zeroposition

The distance from the sowing area (the sowing area with half the row width from the last row):

NOTE: See Figure 2:

4 Requirements

4:1 General

Use any one of the methods in 4:2 and 4:3 to reduce the environmental impact of the exhaust air of the pneumatic system fan:

One approach is to apply design principles to reduce the effect of fan exhaust, or experimental methods can be used to verify consistency:

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