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# International Standard



# 8524

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

ANSI INC. 25 N. 19th St. Rosslyn, VA 22209-4131

## Equipment for distributing granulated pesticides or herbicides — Test method

*Matériels de distribution de granulés phytosanitaires — Méthode d'essai*

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8524 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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# Equipment for distributing granulated pesticides or herbicides — Test method

## 0 Introduction

The aim of this International Standard is to harmonize testing of equipment for distributing granulated pesticides or herbicides, by means of standardized tests which are reproducible, allowing comparable results in figures and graph form to be obtained.

The tests assess the effects of the type of granulated pesticides or herbicides, the level of granules in the hopper, the application rate setting and the forward speed, on flow rate, evenness of flow rate and evenness of distribution.

Optional tests (see annex B) can complete the assessment.

NOTE — These tests may be combined with tests on the basic machine to which the distributor is linked. In such cases, the test refers to this combination.

## 1 Scope and field of application

This International Standard specifies a laboratory test method for granulated pesticide or herbicide distributors, including distributors for attachment to a basic machine.

## 2 Reference

ISO 3534, *Statistics — Vocabulary and symbols*.

## 3 Definitions

For the purposes of this International Standard, the following definitions apply.

**3.1 granule pesticides or herbicides (granules):** Plant protection product in granule form, for example made up of an active and a carrying material, with particle size of between 0,15 and 2,00 mm.

**3.2 granule distributors:** Equipment for distributing the granulated product defined under 3.1, over a wide area, in rows, bands or at individual spots.

**3.3 basic machine:** Implement (e.g. single seed drill) to which additional accessories (e.g. granule distributor) are fitted.

**3.4 feed mechanism (of granules):** Mechanism which takes the granules from a hopper to transfer them at a constant predetermined flow rate onto the ground (e.g. broadcast or in a band) or into the soil (e.g. into a drill via a feed pipe).

**3.5 flow rate (of granules):** Quantity of granules distributed, expressed in mass or volume, per unit of time.

**3.6 application rate (of granules):** Quantity of granules distributed, expressed in mass or volume, per unit of length or surface, or per spot.

**3.7 hopper capacity:** Total of granules which the hopper is designed to contain.

The top surface of the material shall be horizontal. If there is no full mark or statement in the manufacturer's instructions, the hopper shall be filled to a level 2 cm below the lowest top edge.

## 4 General test conditions

### 4.1 Granule distributor

#### 4.1.1 Selection

The distributor to undergo testing may be selected by the representative of the test office in agreement with the manufacturer. It shall be either a complete multi-row unit or three individual units with all accessories.

The distributor shall conform strictly in all respects to the specifications which the manufacturer is required to send to the test offices in writing.

The test report (see annex C) shall specify how the distributor for testing was chosen. Should the test on the distributor be combined with a basic machine, the distributor chosen will be that attached to the basic machine.

The manufacturer or his representative shall be entitled to be present at the tests.