

INTERNATIONAL STANDARD

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Tractors and machinery for agriculture and forestry — Guards for power take-off (PTO) drive-shafts —

Part 2: Wear test

*Tracteurs et matériels agricoles et forestiers — Protecteurs d'arbres de
transmission à cardans de prise de force —*

Partie 2: Essai d'usure



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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 5674-2 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 2, *Common tests*.

ISO 5674 consists of the following parts, under the general title *Tractors and machinery for agriculture and forestry — Guards for power take-off (PTO) drive-shafts*:

- *Part 1: Strength test*
- *Part 2: Wear test*

Part 1 cancels and replaces the first edition of ISO 5674, published in 1982.

Annex A of this part of ISO 5674 is for information only.

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Tractors and machinery for agriculture and forestry — Guards for power take-off (PTO) drive-shafts —

Part 2: Wear test

1 Scope

This part of ISO 5674 specifies the requirements and the laboratory test method for determining the resistance against wear of guards for PTO drive-shafts as specified in ISO 5673.

If this wear test is to be carried out, it shall be undertaken on the same guard but before the strength test (in ISO 5674-1).

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 5674. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 5674 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 4254-1:1989, *Tractors and machinery for agriculture and forestry — Technical means for ensuring safety — Part 1: General*.

ISO 5673:1980, *Agricultural tractors — Power take-off drive shafts for machines and implements*.

ISO 5674-1:1992, *Tractors and machinery for agriculture and forestry — Guards for power take-off (PTO) drive-shafts — Part 1: Strength test*.

3 Definitions

For the purposes of this part of ISO 5674, the definitions given in ISO 5674-1 and ISO 5673 apply.

4 Test conditions

4.1 The guard shall be taken from production and be within the tolerances shown on production drawings. The operating and maintenance instructions shall be complied with as described by the manufacturer. Non-rotating guards shall be restrained from rotating during the tests. Rotating guards shall not be restrained from rotating. The guard shall be tested in conjunction with a PTO drive-shaft of 1 m centreline closed length (as defined in ISO 5673) for which it is intended. The same guard shall be used throughout the test. The results obtained from a sample shall be presumed valid for guards of shorter and longer length.

4.2 The test shall be carried out at an ambient temperature between 5 °C and 35 °C, or at 50 °C ± 5 °C, as specified.

4.3 When the PTO drive-shaft guard is the rotating type, its rotational frequency shall be 1 000 min⁻¹.

5 Test equipment

5.1 The wear test equipment shall consist of a cabinet capable of holding the PTO drive-shaft and the rotating or non-rotating guard horizontal, and of rotating the PTO drive-shaft at a frequency of 1 000 min⁻¹. The equipment shall be such that it can be used for all PTO drive-shafts as specified in ISO 5673.

The size and shape of the cabinet shall be such that an even distribution of the spray of salt-water solution or dust is ensured. The upper parts shall be shaped so that drops of sprayed solution which ac-