



SLOVENSKI STANDARD SIST EN ISO 5470-1:2017

01-februar-2017

Nadomešča:
SIST EN ISO 5470-1:1999

**Gumirane ali plastificirane tekstilije - Ugotavljanje odpornosti proti drgnjenju - 1.
del: Taberjev drgalnik (ISO 5470-1:2016)**

Rubber- or plastics-coated fabrics - Determination of abrasion resistance - Part 1: Taber
abrader (ISO 5470-1:2016)

Mit Kautschuk oder Kunststoff beschichtete Textilien - Bestimmung des
Abriebwiderstandes - Teil 1: Taber-Abriebprüfgerät (ISO 5470-1:2016)

Supports textiles revêtus de caoutchouc ou de plastique - Détermination de la résistance
à l'usure - Partie 1 : Appareil d'essai d'abrasion Taber (ISO 5470-1:2016)

Ta slovenski standard je istoveten z: EN ISO 5470-1:2016

ICS:

59.080.40	Površinsko prevlečene tekstilije	Coated fabrics
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SIST EN ISO 5470-1:2017	en,fr,de
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 5470-1

December 2016

ICS 59.080.40

Supersedes EN ISO 5470-1:1999

English Version

Rubber- or plastics-coated fabrics - Determination of abrasion resistance - Part 1: Taber abrader (ISO 5470-1:2016)

Supports textiles revêtus de caoutchouc ou de plastique - Détermination de la résistance à l'usure - Partie 1: Appareil d'essai d'abrasion Taber (ISO 5470-1:2016)

Mit Kautschuk oder Kunststoff beschichtete Textilien - Bestimmung des Abriebwiderstandes - Teil 1: Taber-Abriebprüfgerät (ISO 5470-1:2016)

This European Standard was approved by CEN on 14 September 2016.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN ISO 5470-1:2016) has been prepared by Technical Committee ISO/TC 45 “Rubber and rubber products” in collaboration with Technical Committee CEN/TC 248 “Textiles and textile products” the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2017, and conflicting national standards shall be withdrawn at the latest by June 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 5470-1:1999.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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Endorsement notice

The text of ISO 5470-1:2016 has been approved by CEN as EN ISO 5470-1:2016 without any modification.

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INTERNATIONAL
STANDARD

ISO
5470-1

Second edition
2016-11-15

**Rubber- or plastics-coated
fabrics — Determination of abrasion
resistance —**

**Part 1:
Taber abrader**

iTeh STANDARD PREVIEW
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*Supports textiles revêtus de caoutchouc ou de plastique —
Détermination de la résistance à l'usure —
Partie 1: Appareil d'essai d'abrasion Taber*

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Reference number
ISO 5470-1:2016(E)

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ISO 5470-1:2016(E)

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html

The committee responsible for this document is ISO/TC 45, *Rubber and rubber products*, SC 4, *Products (other than hoses)*.

This second edition cancels and replaces the first edition (ISO 5470-1:1999) which has been technically revised. The changes are as follows:

- in [Clause 4](#), a non-flexible cardboard support or a solid board equivalent to it for thin sample fixation has been added as [4.9](#) and the part of the body text related to it in the third paragraph of [4.1](#) has also been added accordingly;
- in [Clause 5](#), the test piece diameter has been changed from 114 mm to the range of 105 mm to 115 mm and the key 2 in [Figure 1](#) has been changed accordingly;
- the text in [7.2](#) has been revised.

ISO 5470 consists of the following parts, under the general title *Rubber- or plastics-coated fabrics — Determination of abrasion resistance*:

- *Part 1: Taber abrader*
- *Part 2: Martindale abrader*

Introduction

It has long been accepted that some of the parameters associated with the Taber test as given in ISO 5470:1980 needed to be more closely specified if reasonable reproducibility (*R*) was to be obtained. Much of the work is now completed and has been acknowledged by ISO/TC 61 in publishing ISO 9352, which employs a zinc plate as a means of calibrating the initial abrasive power of the wheels. This does not, however, entirely overcome the problem of clogging or maintaining abrasion properties between and during tests. It may also be regarded as expensive and time-consuming.

This part of ISO 5470 permits the approach in ISO 9352 to be adopted if so desired. However, the major disadvantages of the Taber abrader are that:

- a) end points can be somewhat subjective unless a gravimetric technique is employed;
- b) only a small strip of material is abraded;
- c) because of the velocity of interfacial friction, localized heating of the coating polymer can cause softening and thus be less representative of abrasive wear in service;
- d) the 6 mm diameter hole in the centre of the test piece does not permit post-abrasion assessments of properties such as hydrostatic heat resistance or resistance to chemical reagents.

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