
**Gumirane ali plastificirane tekstilije - Ugotavljanje odpornosti proti drgnenju -
1.del: taberjev drgalnik (ISO 5470-1:1999)**

Rubber- or plastics-coated fabrics - Determination of abrasion resistance - Part 1: Taber
abrader (ISO 5470-1:1999)

Mit Kautschuk oder Kunststoff beschichtete Textilien - Bestimmung des
Abriebwiderstandes - Teil 1: Taber-Abriebprüfgerät (ISO 5470-1:1999)

Supports textiles revetus de caoutchouc ou de plastique - Détermination de la résistance
à l'usure - Partie 1: Appareil d'essai d'abrasion Taber (ISO 5470-1:1999)

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Ta slovenski standard je istoveten z: EN ISO 5470-1:1999

ICS:

59.080.40 Ú[ç'izã • \ [Á ! ^ ç | ^ ^ } ^ Coated fabrics
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SIST EN ISO 5470-1:1999**en**

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EUROPEAN STANDARD
 NORME EUROPÉENNE
 EUROPÄISCHE NORM

EN ISO 5470-1

June 1999

ICS 59.080

English version

Rubber- or plastics-coated fabrics - Determination of abrasion
 resistance - Part 1: Taber abrader (ISO 5470-1:1999)

Supports textiles revêtus de caoutchouc ou de plastique -
 Détermination de la résistance à l'usure - Partie 1: Appareil
 d'essai d'abrasion Taber (ISO 5470-1:1999)

Mit Kautschuk oder Kunststoff beschichtete Textilien -
 Bestimmung des Abriebwiderstandes - Teil 1: Taber-
 Abriebprüfgerät (ISO 5470-1:1999)

This European Standard was approved by CEN on 13 May 1999.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

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CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
 COMITÉ EUROPÉEN DE NORMALISATION
 EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of the International Standard ISO 5470-1:1999 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 December 1999, and conflicting national standards shall be withdrawn at the latest by December 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 5470-1:1999 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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REPUBLIC OF TURKEY
MINISTRY OF INDUSTRY AND COMMERCE
GENERAL DIRECTORATE OF STANDARDIZATION
SIST EN ISO 5470-1:1999

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Annex ZA (normative)**Normative references to international publications
with their relevant European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 105-A02	1993	Textiles - Tests for colour fastness - Part A02: Grey scale for assessing change in colour	EN 20105-A02	1994
ISO 2231	1989	Rubber- or plastics-coated fabrics - Standard atmospheres for conditioning and testing	EN ISO 2231	1995
ISO 2286-1	1998	Rubber- or plastics-coated fabrics - Determination of roll characteristics - Part 1: Methods for determination of length, width and net mass	EN ISO 2286-1	1998
ISO 2286-2	1998	Rubber- or plastics-coated fabrics - Determination of roll characteristics - Part 2: Methods for determination of total mass per unit area, mass per unit area of coating and mass per unit area of substrate	EN ISO 2286-2	1998
ISO 2286-3	1998	Rubber- or plastics-coated fabrics - Determination of roll characteristics - Part 3: Method for determination of thickness	EN ISO 2286-3	1998
ISO 5084	1996	Textiles - Determination of thickness of textiles and textile products	EN ISO 5084	1996
ISO 6507-1	1997	Metallic materials - Vickers hardness test - Part 1: Test method	EN ISO 6507-1	1997

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INTERNATIONAL STANDARD

ISO
5470-1

First edition
1999-06-01

Rubber- or plastics-coated fabrics — Determination of abrasion resistance — Part 1: Taber abrader

*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 5470-1:1999(E)

ISO 5470-1:1999(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 5470-1 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*.

It cancels and replaces ISO 5470:1980, which has been technically 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*

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— Part 2: *Martindale abrader*

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Annex A forms an integral part of this part of ISO 5470.

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet iso@iso.ch

Printed in Switzerland

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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