



SLOVENSKI STANDARD
oSIST prEN ISO 24265:2020
01-februar-2020

Obutev - Metode za preskušanje odpornosti zgornjih delov proti drgnjenju z gumijastimi blazinicami (ISO/DIS 24265:2019)

Footwear - Test methods for uppers-fastness to rubbing using a rubber pad (ISO/DIS 24265:2019)

Schuhe - Prüfverfahren für Oberteile - Prüfung der Reibfestigkeit mit einem Gummikissen (ISO/DIS 24265:2019)

Chaussures - Méthodes d'essai pour les tiges - Résistance au frottement à l'aide d'un patin en caoutchouc (ISO/DIS 24265:2019)

Ta slovenski standard je istoveten z: prEN ISO 24265

ICS:

61.060

Obuvala

Footwear

oSIST prEN ISO 24265:2020

en,fr,de

DRAFT INTERNATIONAL STANDARD

ISO/DIS 24265

ISO/TC 216

Secretariat: UNE

Voting begins on:
2019-10-21Voting terminates on:
2020-01-13

Footwear — Test methods for uppers — Fastness to rubbing using a rubber pad

ICS: 61.060

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 24265:2021](https://standards.iteh.ai/catalog/standards/sist/4882f4b9-855f-4281-b70f-cb4a704bcb6c/sist-en-iso-24265-2021)<https://standards.iteh.ai/catalog/standards/sist/4882f4b9-855f-4281-b70f-cb4a704bcb6c/sist-en-iso-24265-2021>

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENT AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

This document is circulated as received from the committee secretariat.

ISO/CEN PARALLEL PROCESSING



Reference number
ISO/DIS 24265:2019(E)

© ISO 2019

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 24265:2021

<https://standards.iteh.ai/catalog/standards/sist/4882f4b9-855f-4281-b70f-cb4a704bcb6c/sist-en-iso-24265-2021>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2019

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Principle	1
4 Apparatus	1
5 Preparation of test pieces	4
5.1 Dry rubbing resistance.....	4
5.2 Wet rubbing resistance.....	4
6 Procedure	4
6.1 Dry rubbing resistance.....	4
6.2 Wet rubbing resistance.....	4
7 Expression of results	5
8 Test report	5

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 24265:2021](https://standards.iteh.ai/catalog/standards/sist/4882f4b9-855f-4281-b70f-cb4a704bcb6c/sist-en-iso-24265-2021)

<https://standards.iteh.ai/catalog/standards/sist/4882f4b9-855f-4281-b70f-cb4a704bcb6c/sist-en-iso-24265-2021>

ISO/DIS 24265:2019(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 of the voluntary nature of standards, 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 216, *Footwear*.

SIST EN ISO 24265:2021

<https://standards.iteh.ai/catalog/standards/sist/4882f4b9-855f-4281-b70f-cb4a704bcb6c/sist-en-iso-24265-2021>

Footwear — Test methods for uppers — Fastness to rubbing using a rubber pad

1 Scope

This Standard specifies a method for the determination of the rubbing resistance of leather and synthetic materials using rubber.

The method is aimed to establish testing conditions that are similar to those of the practical use of footwear subjected to drastic stress, as is the case of hiking or children's footwear, where the upper of one of the shoes is expected to rub with the sole of the other. This method is applicable to all types of leather and synthetic materials intended for shoe uppers.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

EN ISO 11640, *Leather — Tests for colour fastness — Colour fastness to cycles of to-and-fro rubbing*

EN 20105-A02, *Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour*

ISO 18454, *Footwear — Standard atmospheres for conditioning and testing of footwear and components for footwear*

3 Principle

The shoe upper material is drastically rubbed with the abrading rubber element for a given number of 'to-and-fro' motions (cycles).

4 Apparatus

4.1 Beaker or other suitable vessel.

4.2 The test apparatus suitable for this test shall incorporate the following elements:

4.2.1 A carriage with:

- a) horizontal, completely planar metal platform;
- b) holder for fastening the material to be tested leaving 80 mm freely exposed;
- c) device which allows the test-piece to be extended at least 10 % in the direction of rubbing.

4.2.2 A finger, of mass (500 ± 25) g, removable but able to be fixed firmly, provided with:

- a) a base formed by a wooden semi-cylinder measuring 10 mm radius \times 20 mm wide;
- b) a device for attaching the rubber strips on the wooden semi-cylinder base (see [Figure 1](#));
- c) an additional weight of mass (500 ± 10) g;

ISO/DIS 24265:2019(E)

- d) means for guiding the finger when fully loaded (total mass $1\,000 \pm 35$ g) flat on the test piece, stretched or not, as appropriate.

4.2.3 Means for driving the carriage (4.2.1) to and fro with:

- a) a distance travel of 35 mm to 40 mm;
b) a frequency of (40 ± 2) cycles/min.

NOTE 1 The following items are convenient, but not essential parts of the equipment:

- a) means to move the finger at right angles to the direction of rubbing, so that two or three tracks may be used for rubbing on one test piece;
b) a motor to drive the carriage to and fro (4.2.3);
c) means to pre-select a given number of cycles.

NOTE 2 This test apparatus is similar to the one specified in the Standard EN ISO 11640 for the determination of the colour fastness to to-and-fro rubbing of leather, to which the wooden semi-cylinder of 10 mm radius and 20 mm wide is attached on the base of the finger (4.2.2) and a suitable device is coupled for attaching the rubber strips.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 24265:2021

<https://standards.iteh.ai/catalog/standards/sist/4882f4b9-855f-4281-b70f-cb4a704bcb6c/sist-en-iso-24265-2021>

4.3 Rubbing material, a $(5,0 \pm 0,1)$ mm wide, (5 ± 1) mm thick, $(75 \pm 3)^\circ$ Shore A hardness nitrile rubber strip with a friction coefficient of $0,20 \pm 0,05$ (see [figure 1](#)), the surface of which shall be previously roughened (see the note in [Clause 6](#)). Use preferably a light-coloured material to avoid staining the sample.

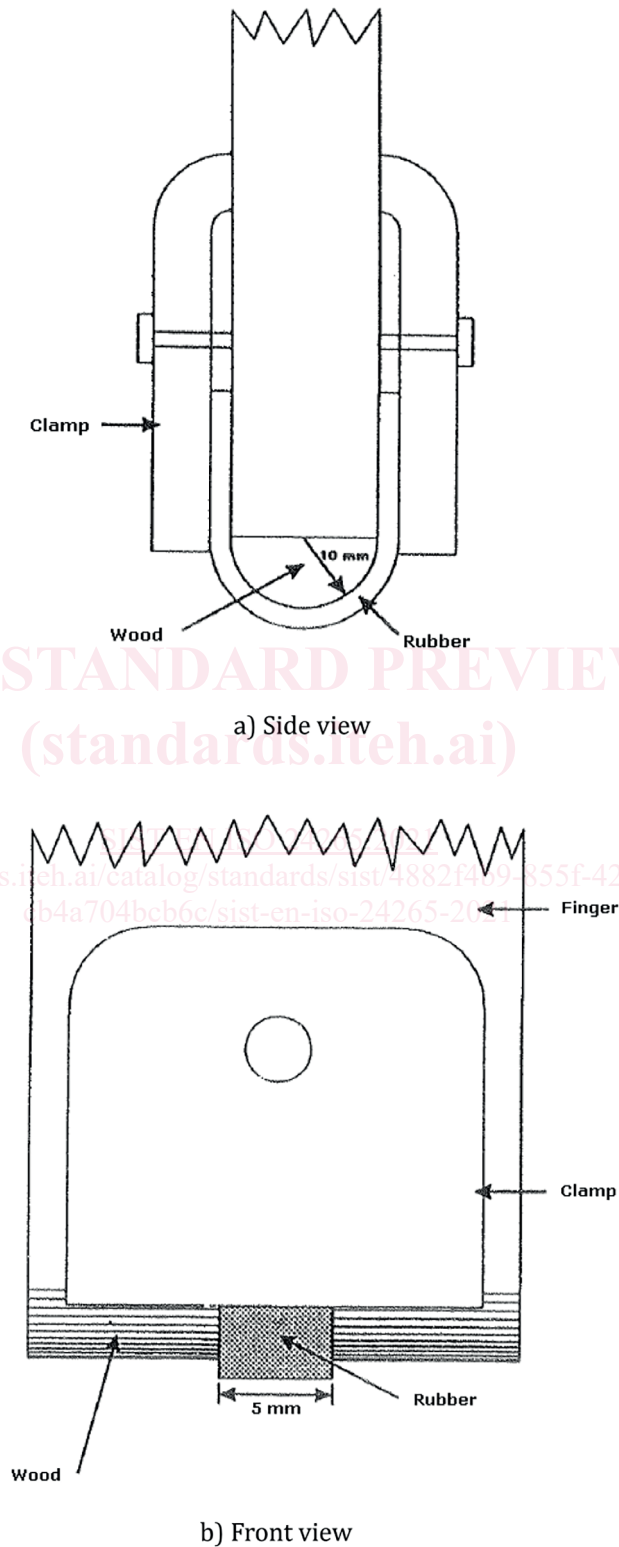


Figure 1

4.4 Grey scale, in accordance with EN 20105-A02, for assessing the change in colour of leather or synthetic materials.

ISO/DIS 24265:2019(E)

4.5 Vacuum desiccator or other suitable vessel for evacuation.

4.6 Vacuum pump, capable of evacuating the vessel (4.5) and achieving 5 kPa (50 mbar, approximately 40 Torr) in 4 min.

5 Preparation of test pieces

5.1 Dry rubbing resistance

Cut a test piece measuring approximately 12 mm × 70 mm for each one of the sample directions.

Condition test pieces in accordance with ISO 18454 for a minimum of 24 h.

5.2 Wet rubbing resistance

Cut a test piece measuring approximately 120 mm × 70 mm for each one of the sample directions. To ensure uniform wetting, proceed as follows:

Immerse the test-piece in distilled water and place the containing vessel (4.1) in the vacuum desiccator (4.5). Produce a vacuum of 5 kPa (4.6) and hold it for 2 min. Restore normal pressure. Carry out this procedure two more times. Allow the test piece to soak in the water at 23 °C ± 2 °C at atmospheric pressure for 30 min. Take the test-piece out of the water and remove excess water on its surface with blotting paper, and then start the test.

No conditioning is required for the wet test.

6 Procedure

6.1 Dry rubbing resistance

6.1.1 Mount the test-piece (5.1) on the apparatus (4.2) and stretch it 10 %, or stretch it sufficiently to avoid the formation of creases.

6.1.2 Attach a rubber strip (4.3) to the wooden semi-cylinder and hold it adequately. Place the finger with the rubber strip 15 mm from the left long edge. Carry out 10 cycles and lift the finger off the test-piece.

6.1.3 Move the rubber strip a little bit to one side, so a non used part of the strip is in front of the test piece during the test, or replace the strip with a new one. Place the finger with the rubber strip 15 mm to the right of the previous position. Carry out 20 cycles and lift the finger off the test-piece.

6.1.4 Move the rubber strip a little bit to one side, so a non used part of the strip is in front of the test piece during the test, or replace the strip with a new one. Place the finger with the rubber strip 15 mm from the right long edge. Carry out 30 cycles and lift the finger off the test-piece.

6.1.5 Release the test-piece and assess the rubbed areas.

6.2 Wet rubbing resistance

6.2.1 Mount the wetted test-piece (5.2) on the apparatus, stretch it 10 %, or stretch it sufficiently to avoid the formation of creases.

6.2.2 Proceed as described in 6.1.2, 6.1.3 and 6.1.4, but carrying out 5, 10 and 20 cycles, respectively.