Footwear - Test methods for lining and insocks - Static friction (ISO 22653:2003)



EESTI STANDARDI EESSÕNA

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Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 17.10.2018.	, , , , , , , , , , , , , , , , , , ,
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EUROPEAN STANDARD

EN ISO 22653

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English Version

Footwear - Test methods for lining and insocks - Static friction (ISO 22653:2003)

Chaussures - Méthodes d'essai pour la doublure et pour la première de propreté - Frottement statique (ISO 22653:2003) Schuhe - Prüfverfahren für Futter und Decksohlen -Haftreibung (ISO 22653:2003)

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European foreword

The text of ISO 22653:2003 has been prepared by Technical Committee ISO/TC 216 "Footwear" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 22653:2018 by Technical Committee CEN/TC 309 "Footwear" the secretariat of which is held by UNE.

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Endorsement notice

The text of ISO 22653:2003 has been approved by CEN as EN ISO 22653:2018 without any modification.

Contents

		Page
Fore	word	3
1	Scope	4
2	Normative references	4
3	Definitions	4
4	Apparatus and material	4
5	Sampling and conditioning	8
6	Test method	
7	Expression of results	11
8	Test report	17
deter	mination of the variability of kinetic friction	18

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 309 "Footwear", the secretariat of which is held by AENOR.

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of an identical text or by endorsement, at the latest by September 2000, and conflicting national standards shall be withdrawn at the latest by September 2000.

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1 Scope

This European standard specifies two methods of assessing the frictional properties of lining and insocks, irrespective of the material.

2 Normative references

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.

EN 12222, Footwear – Standard atmospheres for conditioning and testing of footwear and components for footwear.

3 Definitions

For the purposes of this standard the following definitions apply:

3.1

coefficient of static friction (μ_s)

the ratio of the force necessary to cause the tangential separation of two stationary surfaces to the perpendicular force acting upon the two surfaces

3.2

coefficient of kinetic friction (μ_k)

the ratio of the force necessary to maintain a constant velocity between two surfaces in contact to the perpendicular force acting upon the two surfaces

3.3

kinetic angle of surface drag (D_k)

the angle of the inclined plane at which the test sled will slide down the inclined plane when sliding is initiated by a standard impulse

3.4

static angle of surface drag (D_s)

the angle of the inclined plane at which the test sled will slide down the inclined plane under its own mass and momentum

4 Apparatus and material

The following apparatus and material shall be used:

4.1 Method A

4.1.1 A sled, (150 mm \pm 1 mm) long x (100 mm \pm 1 mm) wide having a mass of 700 g \pm 15 g to which a lining or insock test specimen is attached (see 5.1.1) and a test specimen support of cellular rubber, or plastics material, 3 mm thick and of medium apparent density. The surface of the sled is flat and smooth or polished. The edges of the sled do not contain any burrs or roughness.

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