

Stomatoloogia - Hambaharjade harjastatud osa jäikus

Dentistry - Manual toothbrushes - Resistance of
tufted portion to deflection

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 22254:2005 sisaldab Euroopa standardi EN ISO 22254:2005 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 29.09.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 22254:2005 consists of the English text of the European standard EN ISO 22254:2005.</p> <p>This document is endorsed on 29.09.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This International Standard specifies a test method for determining the resistance of the tufted portion of manual toothbrushes to deflection.</p>	<p>Scope: This International Standard specifies a test method for determining the resistance of the tufted portion of manual toothbrushes to deflection.</p>
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ICS 97.170

Võtmesõnad: hambaharjad, jäikustestid, liigitus, stomatoloogia, testimine, testimisvahendid

English Version

Dentistry - Manual toothbrushes - Resistance of tufted portion to deflection (ISO 22254:2005)

Art dentaire - Brosses à dents manuelles - Résistance à la déflexion de la surface garnie (ISO 22254:2005)

Zahnheilkunde - Handzahnbürsten - Biegefestigkeit der Besteckungsfläche (ISO 22254:2005)

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Foreword

This document (EN ISO 22254:2005) has been prepared by Technical Committee ISO/TC 106 "Dentistry" in collaboration with Technical Committee CEN/TC 55 "Dentistry", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by February 2006, and conflicting national standards shall be withdrawn at the latest by February 2006.

This document supersedes EN 28627:1990.

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Endorsement notice

The text of ISO 22254:2005 has been approved by CEN as EN ISO 22254:2005 without any modifications.

**Dentistry — Manual toothbrushes —
Resistance of tufted portion to deflection**

*Art dentaire — Broses à dents manuelles — Résistance à la déflexion
de la surface garnie*



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Foreword

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ISO 22254 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 7, *Oral care products*.

This first edition cancels and replaces ISO 8627:1987.

Introduction

The stiffness of the tufted area of a manual toothbrush has been of great concern for both consumers and manufacturers. This International Standard provides a test method for determining the resistance of the tufted portion to deflection, which could be used to derive a stiffness as described in Annex A. However, this International Standard does not cover stiffness of manual toothbrushes and its classification. For stiffness determination, the measurement of the tufted area is required, but the result of the measurement varies over a wide range depending on the method of the measurement and the shape of the tuft holes. Therefore, the tufted area and stiffness determinations are described in Annex A. Since the perception of stiffness differs amongst different countries, stiffness may be classified differently in each country.

Dentistry — Manual toothbrushes — Resistance of tufted portion to deflection

1 Scope

This International Standard specifies a test method for determining the resistance of the tufted portion of manual toothbrushes to deflection. This International Standard is applicable to toothbrushes having a conventional, flat trim design and may not be applicable to toothbrushes with other designs. The results obtained with this International Standard may not correspond to consumer perceptions of the stiffness of toothbrush filaments.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1942 (all parts), *Dentistry — Vocabulary*

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1942-1 to ISO 1942-5 and the following apply.

3.1

manual toothbrush

hand-powered device primarily for cleaning surfaces of teeth, the working end of which carries filaments

3.2

brush head

working end of a toothbrush to which the filaments are attached

3.3

filament

single strand within the brush head

3.4

tuft

group of filaments gathered together and attached to the brush head

3.5

tuft hole surface

surface of the tuft holes, which can be convex, triangular or plane and which is limited by a peripheral tangent line to the outer tuft holes

3.6

tuft hole plane

plane between the base of the tufts (where they meet the face of the brush) at the top of the brush head and the base of the tufts at the bottom of the brush head