

Irish Standard I.S. EN ISO 24415-1:2009

Tips for assistive products for walking - Requirements and test methods - Part 1: Friction of tips (ISO 24415-1:2009)

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Tips for assistive products for walking - Requirements and test methods - Part 1: Friction of tips (ISO 24415-1:2009)

Embouts pour produits d'assistance à la marche -Exigences et méthodes d'essai - Partie 1: Frottement des embouts (ISO 24415-1:2009) Puffer für technische Gehhilfen - Anforderungen und Prüfungen - Teil 1: Reibung der Puffer (ISO 24415-1:2009)

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EN ISO 24415-1:2009 (E)

Foreword

This document (EN ISO 24415-1:2009) has been prepared by Technical Committee ISO/TC 173 "Technical systems and aids for disabled or handicapped persons" in collaboration with Technical Committee CEN/TC 293 "Assistive products for persons with disability" the secretariat of which is held by SIS.

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of an identical text or by endorsement, at the latest by October 2009, and conflicting national standards shall be withdrawn at the latest by October 2009.

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The text of ISO 24415-1:2009 has been approved by CEN as a EN ISO 24415-1:2009 without any modification.

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I.S. EN ISO 24415-1:2009 INTERNATIONAL STANDARD

ISO 24415-1

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Tips for assistive products for walking — Requirements and test methods —

Part 1: Friction of tips

Embouts pour produits d'assistance à la marche — Exigences et méthodes d'essai —

Partie 1: Frottement des embouts



ISO 24415-1:2009(E)

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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 2.

The main task of technical committees is to prepare International Standards. 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.

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ISO 24415-1 was prepared by Technical Committee ISO/TC 173, Assistive products for persons with disability.

ISO 24415 consists of the following parts, under the general title *Tips for assistive products for walking* — *Requirements and test methods*:

— Part 1: Friction of tips

The following part is under preparation:

— Part 2: Durability of tips for crutches

ISO 24415-1:2009(E)

Introduction

A frictional performance of the tips attached to the bottom of assistive products for walking is a key concern ensuring user safety. Friction between the tips and the walking surface is an extraordinarily important factor by which a user can confirm his/her motion.

The tips are used on many different assistive products for walking, including canes, walking sticks, crutches, walking frames, rollators and walking tables and are produced in many different sizes and made of many different materials depending on the assistive products for walking to which they are applied. Tips with a variety of bottom shapes for a particular kind of assistive product for walking are also available on the market.

In the friction test method found in this part of ISO 24415, tips of original shape are used. In real situations, not only pure frictional characteristics but also the shape and pattern of the bottom surface against the walking surface can affect the locomotive performance.

This part of ISO 24415 specifies a test with which the frictional force is measured on tip products themselves in order to ensure that the tips with necessarily frictional characteristics are used and it helps to exclude the tips with unacceptably poor frictional characteristics.

Tips for assistive products for walking — Requirements and test methods —

Part 1:

Friction of tips

1 Scope

This part of ISO 24415 specifies requirements and test methods for the friction between the tips for assistive products for walking and the walking surface. This part of ISO 24415 is not applicable to tips manufactured for special purposes. The requirements and test method are based on a usage of tips for ordinary gait on the dry and flat walking surface.

EXAMPLE 1 Examples of assistive products for walking are walking sticks, elbow crutches, forearm crutches, auxillary crutches, walking frames, rollators and walking tables.

EXAMPLE 2 An example of special purposes is ice and/or snow.

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 9999, Assistive products for persons with disability — Classification and terminology

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

tip

that part of the assistive product for walking, which is in contact with the walking surface

See Figure 1.

3.2

test track

surface against which the tip is to be tested

3.3

test velocity

relative velocity between the tip and the test track



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