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

Part 2: Durability of tips for crutches

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

Partie 2: Durabilité des embouts de béquilles



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Foreword

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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.

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.

ISO 24415-2 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*
- *Part 2: Durability of tips for crutches*

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Introduction

The characteristics of tips attached to the bottom of assistive products for walking are essential to ensuring user safety. The tips are continuously and repeatedly subjected to load and friction while walking; durability against this repeated load is important both for safety and for cost effectiveness.

Tips are used on many different assistive products for walking, including canes, walking sticks, crutches, walking frames, rollators, and walking tables. They are produced in many different sizes and are made of many different materials, depending on the sort of assistive products for walking to which they are applied. A variety of bottom shapes are available on the market for the many kinds of assistive products for walking.

Generally, durability of rubber is estimated based on a wearing resistance test using test pieces rather than finished goods. However, tips for assistive products for walking are used in several different ways, therefore it is favourable to perform the test on manufactured tips (not manufactured test pieces) to obtain realistic data. For example, tips for crutches can endure less abrasion, because the load on tips for crutches is higher than that on tips for other assistive products for walking.

This part of ISO 24415 specifies requirements and test methods for durability of tips for crutches to enable developers, manufacturers, distributors, and health care providers to determine whether tips have the necessary durability.