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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 40889.2-2021

**Tips for assistive products for walking - Requirements and test
methods - Part 2: Durability of tips for crutches**

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Table of Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document is Part 2 of GB/T 40889. GB/T 40889 "Requirements and Test Methods for Foot Pads of Mobility Aids" has been released

The following parts.

---Part 1. Friction of the foot pad;

---Part 2. Durability of crutches foot pads.

This document is equivalent to adopting ISO 24415-2:2011 "Requirements and test methods for foot pads of walking aids Part 2. Crutches

Foot pad durability."

The Chinese documents that have a consistent correspondence with the normative reference documents in this document are as follows.

---GB/T 16432-2016 Classification and terminology of rehabilitation assistive devices (ISO 9999:2011, IDT).

This document has made the following minimal editorial changes.

---In order to be consistent with the current national standards, the name of the document is changed to Part 2 of Requirements and Test Methods for Footpads of Mobility Aids

Points. Durability of crutches foot pads.

Introduction

The performance of the foot pad of the walking aid is very important to the safety of the

user. When walking, the foot pads are continuously and repeatedly loaded and

Friction, so its durability is critical to safety and cost.

Foot pads are widely used in many walking aids, including walking sticks, crutches, walking frames, walkers and so on. According to the difference of the connected mobility aid

At the same time, the foot pads also come in different sizes, shapes and materials. There are many foot pads on the market that are suitable for the bottom shape of various specific walking aids.

Generally, rubber test pieces are used instead of rubber products when evaluating rubber durability. However, the foot pads of mobility aids are used in different ways

The same, therefore, testing with the finished foot pad will get more realistic data. For example, compared with other mobility aids, the burden of crutches

The load is higher, so the crutch foot pad needs better abrasion resistance.

The requirements and test methods for the durability of crutches foot pads listed in this document can be used by R&D personnel, manufacturers, distributors and nursing organizations.

Provide a basis for judging whether the foot pad has the necessary durability.

The purpose of GB/T 40889 is to specify the requirements and test methods for the related performance of the foot pads of mobility aids. Two parts are planned to be issued.

---Part 1. Friction of the foot pad. The purpose is to specify the requirements and testing of the friction between the foot pads of the mobility aid and the ground

method.

---Part 2. Durability of crutches foot pads. The purpose is to specify requirements and test methods for the durability of crutches foot pads.

Requirements and test methods for foot pads of mobility aids

Part 2. Durability of crutches foot pads

1 Scope

This document specifies requirements and test methods for the durability of crutches foot pads. These requirements and test methods are based on the

It is used under normal gait conditions on the ground, but not suitable for foot pads made for special purposes.

The crutches described in this document include elbow crutches, forearm crutches, and axillary crutches described in ISO 9999.

Note. Special purpose foot pads may include walking on ice and (or) snow.

2 Normative references

The content of the following documents constitutes an indispensable clause of this document through normative references in the text. Among them, dated quotations

Only the version corresponding to that date is applicable to this document; for undated references, the latest version (including all amendments) is applicable to this document.

document.

ISO 9999 Classification and Terminology of Rehabilitation Assistive Devices
(Assistive products for persons with disability-Classification and terminology)

EN13036-4 Road and airport pavement characteristics test method Part 4. Pavement slip resistance test method pendulum method test (

Road and airfield surface characteristics-Test methods-Part 4. Method for measurement of slip/skid resistance of a surface-The pendulum test)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Foot pad tip

The part of the crutches in contact with the ground.

Note. See Figure 1.

3.2

Test bench test track

The test surface used to test the foot pads.

3.3

Actuator

A device that generates dynamic loads.

3.4

Loading rod

The part used to install the foot pad and transmit the load of the driving device to the foot

pad.

3.5

Loading force

The force applied to the foot pad along the axis of the loading rod.

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