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

GB/T 40889.1-2021

**Tips for assistive products for walking - Requirements and test
methods - Part 1: Friction of tips**

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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 1 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 ISO 24415-1:2009 "Requirements and Test Methods for Foot Pads of Mobility Aids Part 1. Foot Pad Friction" force".

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 assistive devices for the disabled (ISO 9999:2011, IDT).

Introduction

The friction performance of the foot pad installed at the bottom of the walking aid is the key to ensuring the safety of the user. Friction between the foot pad and the walking surface

Force is an important factor for users to determine their walking.

Foot pads are used in many different walking aids, including multi-leg walking sticks, crutches, frame walking frames, wheeled walking frames and desktop walkers.

According to the different walking aids used, the foot pads have different sizes and materials. There are also special types suitable for different bottom shapes on the market

Foot pads used for mobility aids.

In the friction test method found in this document, unused foot pads are used. In actual conditions, not only the foot pads

The pure friction characteristics and the bottom shape and pattern of the foot pad contacting the walking surface will affect the movement performance.

The test specified in this document mainly measures the friction of the foot pad product itself to ensure that the foot pad with the necessary friction characteristics is used.

And to help eliminate low-friction foot pads.

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 1.Friction of the foot pad

1 Scope

This document specifies the requirements and test methods for the friction between the foot pads of mobility aids and the walking surface.

This document applies to foot pads used under normal gait on a dry and flat surface, and does not apply to foot pads for special purposes.

Example 1.Normal use. such as crutches, elbow crutches, forearm support crutches, axillary crutches, frame walkers, wheel walkers and desktop walkers.

Example 2.Special purpose. such as ice, snow, etc.

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 the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

This document.

ISO 9999 Classification and terminology of assistive products for persons with disabilities (Assistive products for persons with disability-Classi-

fication and terminology)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Foot pad tip

Mobility aid components that are in contact with the walking surface.

see picture 1.