
**Castors and wheels — Requirements
for castors for furniture**

Roues et roulettes — Exigences pour roulettes pour meubles

Sample Document

get full document from standards.iteh.ai



Reference number
ISO 22879:2016(E)

© ISO 2016

Sample Document

get full document from standards.iteh.ai



COPYRIGHT PROTECTED DOCUMENT

© ISO 2016, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

	Page
Foreword.....	v
Introduction.....	vi
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 Dimensions and classification.....	1
4.1 Characteristics.....	1
4.2 Fixing system.....	1
4.3 Castor type.....	2
4.3.1 General.....	2
4.3.2 Type H.....	3
4.3.3 Type W.....	3
4.3.4 Type C.....	3
4.3.5 Type S.....	3
4.4 Dimensions.....	3
4.5 Performance level.....	4
5 Requirements for testing.....	4
5.1 General.....	4
5.2 Standard conditions.....	4
5.2.1 Environmental conditions.....	4
5.2.2 Test sequence.....	4
5.3 Impact performance.....	5
5.3.1 Test objectives, apparatus and procedures.....	5
5.3.2 Test values.....	5
5.3.3 Tolerances.....	5
5.3.4 Acceptance criteria.....	5
5.4 Electrical resistance test.....	6
5.4.1 Test objectives, apparatus and procedures.....	6
5.4.2 Test values.....	6
5.4.3 Tolerances.....	6
5.4.4 Acceptance criteria.....	6
5.5 Manual locking device.....	6
5.5.1 Test objectives, apparatus and procedures.....	6
5.5.2 Test values.....	6
5.5.3 Tolerances.....	7
5.5.4 Acceptance criteria.....	7
5.6 Dynamic test.....	7
5.6.1 Test objectives, apparatus and procedures.....	7
5.6.2 Test values.....	7
5.6.3 Tolerances.....	7
5.6.4 Acceptance criteria.....	8
5.7 Rolling resistance.....	8
5.7.1 Test objectives, apparatus and procedures.....	8
5.7.2 Test values.....	8
5.7.3 Tolerances.....	8
5.7.4 Acceptance criteria.....	9
5.8 Swivel resistance.....	9
5.8.1 Test objectives, apparatus and procedures.....	9
5.8.2 Test values.....	9
5.8.3 Tolerances.....	9
5.8.4 Acceptance criteria.....	9
5.9 Static load performance.....	9

5.9.1	Test objectives, apparatus and procedures.....	9
5.9.2	Test values	9
5.9.3	Tolerances.....	10
5.10	Stem retention.....	10
5.10.1	Test objectives, apparatus and procedures.....	10
5.10.2	Test values	10
5.10.3	Acceptance criteria	10
6	Conformity	10
7	Marking.....	11
7.1	Product marking.....	11
7.2	Marking of electrically conductive or antistatic castors/wheels.....	11
	Bibliography	12

Sample Document

get full document from standards.iteh.ai

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 110, *Industrial trucks*.

This second edition results from the reinstatement of ISO 22879:2004, which was withdrawn in 2014 and with which it is technically identical.

Introduction

The industry stakeholders have expressed the need for this important International Standard. Therefore, the interested parties agreed to republish the withdrawn International Standard as a new edition.

In order to ensure that the International Standard will be actively used in the ISO member countries, worldwide, procedures may be necessary to replace the existing national standards and technical regulations by the International Standard.

Only by these actions will there be the guarantee that products in accordance with International Standards can be shipped worldwide freely without any technical barriers.

Sample Document

get full document from standards.iteh.ai

Castors and wheels — Requirements for castors for furniture

1 Scope

This document specifies the technical requirements, the appropriate dimensions and the requirements for the testing of castors for furniture.

It is applicable to castors for general furniture applications, but specifically excludes those for swivel chairs and other specialized applications.

NOTE Castors for swivel chairs are specified in ISO 22880.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 22878:2004, *Castors and wheels — Test methods and apparatus*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 22877 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

NOTE Symbols are given in ISO 22878:2004, Annex A.

4 Dimensions and classification

4.1 Characteristics

The characteristics of a castor are

- fixing system,
- castor type,
- dimensions, and
- performance level.

4.2 Fixing system

The fixing system includes the top plates, stem and circlip, threaded stem and other fixing systems.

Fixings shall be chosen with reference to the application of the castor.