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

GB/T 30661.3-2015

**Wheelchair seating -- Part 3: Determination of static, impact and
repetitive load strengths for postural support devices**

轮椅车座椅 第3部分：体位支撑装置的静态、冲击和疲劳强度测定

(English Translation)

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Foreword

GB/T 30661 "wheelchair seat" is divided into the following four parts.

- Part 1. parts of the body posture and gesture support surface vocabulary, and measurement reference axis;
- Part 2. maintain tissue integrity physical and mechanical properties measuring device seat;
- Part 3. postural support means static, impact and fatigue strength measurement;
- Part 4. seating system for a motor vehicle on.

This section GB/T Part of 330,661.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method identical with ISO 16840-3:2006 "Wheelchairs Seat - Part 3. Static postural support device, punch Shock and fatigue strength measurement. " Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB/T 18029.15-2008 Wheelchairs - Part 15. release of information, documents and requirements issued identification (ISO 7176-15).

1996, IDT)

--- GB/T 18029.26-2014 Wheelchairs - Part 26. Terminology (ISO 7176-26:2007, IDT)

--- GB/T 30661.2-2014 Wheelchairs Seat - Part 2. Physical and mechanical properties maintain tissue integrity measuring device Cushion (ISO 16840-2:2007, IDT) Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This section proposed by the People's Republic of China Ministry of Civil Affairs.

This part of the National Rehabilitation and special equipment Standardization Technical Committee on Persons with Disabilities (SAC/TC148) centralized.

This section drafted by. National Rehabilitation Aids Research Center, National Rehabilitation aids Quality Supervision and Inspection Center, Foshan Dongfang Medical Equipment Co., Ltd., Shanghai Medical Devices Co., Ltd. each state.

Introduction

Postural support device (PSD), as wheelchair cushions or upholstery attachment, people with disabilities have been widely used. How to choose or to prescribe the most appropriate Postural support device (PSD) prescription, should be based on scientific information it can withstand a static, impact and fatigue strength capacity of this section is intended to Specifications and test methods to provide information.

Testing included the PSD mounted on a rigid test fixture (similar to installing wheelchair vehicle), as applied to everyday use similar commitments by static forces, the impact and fatigue strength. Worst use of a rigid fixture usage provided, to avoid damage to the wheel at different repeat test chair. Currently, there is no part of the present embodiment requires a predetermined minimum, typically, the test procedure is gradually increased until the biasing force One or more of the failure of the test, the force applied to a specific value for the fatigue test until failure of one or more tests, the test does not exceed the requirements the number of cycles.

Wheelchair seats

Part 3. static postural support apparatus, Impact and fatigue strength measurement

1 Scope

This section GB/T 30661 specifies the static, impact and fatigue strength test method for postural support equipment and affiliated member, named and information dissemination requirements.

This section does not apply to the use of position on a portable or vehicle supporting device (PSD).

Note: The position is currently supporting device (PSD) of the test program does not indicate a minimum or maximum test load. Future minimum specified test load or maximum, as a test to pass or fail basis. It shall publish the maximum displacement before failure, the maximum load and failure type, in order to Comparison.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 18029.8-2008 Wheelchairs - Part 8. static strength, impact strength and fatigue strength requirements and test methods (ISO 7176-8:1998, IDT) ISO 554. 1976 regulation and/or testing standard atmospheric Specification

(Standardatmospheresforconditioningand/or testing-Specifications) ISO 898-7 Mechanical properties of fasteners - Part 7. bolts and screws with torque test and minimum torques nominal diameter 1mm ~ 10mm (Mechanicalpropertiesoffasteners-Part 7.

Torsionaltestandminimumtorquesforboltsand screwswithnominaldiameters1mmto10mm)

ISO 7176-15 Wheelchairs - Part 15. information dissemination, requirements documents and issued identity (Wheelchairs-Part 15. Re-quirementsforinformationdisclosure, documentationandlabeling) ISO 7176-26 Wheelchairs - Part 26. Terminology

(Wheelchairs-Part 26. Vocabulary) ISO 16840-2 Wheelchairs Seat - Part 2. maintain the integrity of the physical and mechanical properties of tissue measuring device upholstery (Wheelchairseating-Part 2.

Determinationofphysicalandmechanicalcharacteristicsofdevicesin-tendedtomanagetissueintegrity-Seatcushions)

3 Terms and Definitions

ISO 7176-26 definition of the following terms and definitions apply to this document.

Flexible mounting elasticattachmenthardware Allow postural support device (PSD) under the force displacement after unloading and return to the original position of the member.

Example. an installation position of the spring and allow active support means (PSD).