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

GB/T 18029.9-2008

Replacing GB/T 15495-1995

**Wheelchairs -- Part 9: Climatic tests for electric wheelchairs
(English Translation)**

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Appendix NA (informative) water spray apparatus and method for testing

Foreword

GB/T 18029 "wheelchair" consists of the following components.

Part 1. Determination of static stability Part 2. Determination of dynamic stability of electric wheelchairs Part 3. Determination of brakes Determination of energy. Part 4 Part 5. Determination of dimensions, mass and turning space Determination of electric wheelchairs maximum speed, acceleration and deceleration. Part 6 Part 7. Measurement of seating and wheel sizes methods Part 8. static strength, impact strength and fatigue strength requirements and test methods Part 9. Climatic tests for electric wheelchairs Method Determination of electric wheelchair obstacle capacity. Part 10 Part 11. Test dummies Part 13. Determination of the test surface coefficient of friction Part 14. Electric power wheelchairs and control systems - Requirements and test methods Part 15. information dissemination, and labeling requirements documents issued Part 16. Block (by) pad flame retardancy requirements and test methods Part 17. Electric wheelchair controller interface Part 18. The downstairs unit Part 19. Wheeled mobile device for a motor vehicle Part 20. Determination of standing wheelchairs Performance Part 21. Electromagnetic compatibility requirements and test methods Part 22. Adjusting program Part 23. Requirements and test methods for stair climbing device caregiver operation Part 24. Requirements and test methods occupant operated stair climbing device Part 25. Battery and charger requirements and test methods Part 26. Terminology Part is divided into 9

parts.

2001 "Wheelchairs - Part 9.. electric wheelchairs climatic test methods" (in English) of this section is equivalent ISO 7176-9 adoption.

This Part replaces GB/T 15495-1995 "electric wheelchairs climatic test methods." this section compared with the original GB/T 15495-1995, the main differences are.

In this section all the technical indicators, parameters, formulas, performance requirements, test methods, inspection rules made in accordance with the principles specified in ISO 7176 set. Compared with the original national standard, this section has changed greatly.

- a) increase the standard definition of control devices and environmental conditions.
- b) The section on the "standard environmental conditions" has been revised, the original standard environment standard for 23 °C, relative humidity of 50%, while in the present Section standard environmental conditions (20 ± 5) °C, relative humidity of (60 ± 20)%.
- c) increasing the facility chapter.
- d) test method for rain conditions, the low temperature environment, high temperature working environment, low temperature storage conditions, five kinds of high-temperature storage test environment Test environment has been revised, the high and low temperature environment and storage environment were tested concretely defined.

GB/T 18029.9-2008/ISO 7176-9:2001

- e) a description of function test increases, and the refinement of the specific methods of operation.
- f) for intuitive and easy to use, this section IEC 60529:2001 for water spray test equipment and methods as an appendix NA.

This section is informative Annex NA appendix.

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 part mainly drafted by. National Rehabilitation Aids Research Center, Shanghai Medical Devices Co., Ltd. each state.

Introduction

Wheelchairs may be used in harsh environments or storage, which can seriously affect their function, sometimes dangerous.

Using these test methods to determine whether a wheelchair and to what extent vulnerable to environmental conditions.

Operational test under the rain, hot and cold conditions to simulate usage in a wide range of climate change on Earth conditions.

GB/T 18029.9-2008/ISO 7176-9:2001 Wheelchairs Part 9. Test methods for electric wheelchairs climate

1 Scope

This section GB/T 18029 specifies the determination rain, condensation and temperature changes in the limit by one person, does not exceed the maximum speed of 15km/h for Wheelchairs (including electric scooter) requirements and test methods Basic Function.

This section GB/T 18029 does not include requirements for corrosion resistance.

2 Normative references

The following documents contain provisions which, through reference GB/T 18029 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, we are encouraged to reach agreement under this section all parties that proposed to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

ISO 7176-11:1992 Wheelchairs - Part 11. Test dummies (Wheelchairs Part 11. Testdummies) ISO 7176-15:1996 Wheelchairs - Part 15. information dissemination, requirements documents and issued identity (Wheelchairs Part

15 Requirementsforinformationdisclosure, documentationandlabeling)

ISO 7176-22:2000 Wheelchairs - Part 22. Adjusting program (Wheelchairs Part 22. Set-upprocedures) ISO 7176-26:2007 Wheelchairs - Part 26. Terminology (Wheelchairs Part 26. Vocabulary) IEC 60529:2001 Housing protection (IP code) (Degreesofprotectionprovidedbyenclosures (IP Code))

3 Terms and Definitions ISO 7176-26:2007 is defined and determined the following definitions apply to this part of the GB/T 18029 is.

Wheelchair user to control at a desired speed and (or) the direction of movement of the device.

Environmental conditions (20 ± 5) °C, relative humidity of (60 ± 20)%.

Principle 4

Test after normal use, storage and transport ambient conditions wheelchair functions.

5 Facilities

5.1 Test track. as shown in Figure 1 mark, under standard ambient conditions to form a flat and level surface.

Note: for the production floor or indoor leisure typical building. For example, concrete or asphalt surface is used.

GB/T 18029.9-2008/ISO 7176-9:2001