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

GB/T 18029.10-2009

**Wheelchairs -- Part 10: Determination of obstacle-climbing
ability of electric wheelchair
(English Translation)**

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Foreword

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

--- Part 1. Determination of static stability Determination of dynamic stability of electric wheelchairs. --- Part 2

--- Part 3. Determination of brakes Determination of energy consumption. --- Part 4

--- Part 5. Determination of dimensions, mass and turning space Determination of electric wheelchairs maximum speed, acceleration and deceleration. --- Part 6

--- Part 7. seat and wheel size measurement method

--- Part 8. static strength, impact strength and fatigue strength requirements and test methods

--- Part 9. climatic test methods of electric wheelchairs Determination of electric wheelchair obstacle Ability. --- Part 10

--- Part 11. Test dummies

--- Part 13. Determination of the coefficient of friction of the test surface Requirements and test methods for electric wheelchairs and power control systems. --- Part 14

--- 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 this section GB/T 18029 Part 10.

This section identical with ISO 7176-10. 1988 "Wheelchairs - Part 10. Electric wheelchair obstacle capability determination" (in English).

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, Shanghai Medical Devices have each state Limited.

1 Application

This section GB/T 18029 specifies the method for measuring electric wheelchair obstacle ability.

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, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 14729 Wheelchairs term (GB/T 14729-2000, eqvISO 6440.2000) GB/T 18029.11 Wheelchairs - Part 11. Test dummies (GB/T 18029.11-2008, ISO 7176-11:1992, IDT) GB/T 18029.13 Wheelchairs - Part 13. Determination of the test surface coefficient of friction (GB/T 18029.13-2008, ISO 7176-13. 1989, IDT)

3 Terms and Definitions

GB/T 14729 gives terms and definitions apply to this part of the GB/T 18029 of.

Principle 4

Through several experiments measuring electric wheelchairs the ability to climb stairs and sidewalk curbs and other obstacles.

5.1 Test plates

The test should be performed on a hard flat surface coefficient of friction plates shall comply with GB/T 18029.13 of.

5.2 Obstacle

adjust.

Obstacles should be of sufficient size so that wheelchair after climbing on the obstacle, where all the wheels simultaneously stopped at the barrier. Its size should meet the following conditions.

Where.

Chou --- obstacle width;

Obstacle and the wheelchair contact surface friction coefficient should meet the requirements of GB/T 18029.13 of. Obstacle should be fixed in the test plate GB/T 18029.10-2009/ISO 7176-10. 1988