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

GB/T 18029.6-2024

**Wheelchairs - Part 6: Determination of maximum speed of
electrically powered wheelchairs
(English Translation)**

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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 for standardization documents"

Drafting is required.

This document is Part 6 of GB/T (Z) 18029 Wheelchairs. GB/T (Z) 18029 has published the following parts.

- Part 1.Determination of static stability;
- Part 2.Determination of dynamic stability of electric wheelchairs;
- Part 3.Determination of braking performance;
- Part 4.Determination of theoretical energy consumption of electric wheelchairs and electric scooters;
- Part 5.Determination of size, mass and operating space;
- Part 6.Determination of the maximum speed of electric wheelchairs;
- Part 7.Measurement of seat and wheel dimensions;
- Part 8.Requirements and test methods for static strength, impact strength and fatigue strength;
- Part 9.Climatic test methods for electric wheelchairs;
- Part 10.Determination of obstacle surmounting capability of electric wheelchairs;
- Part 11.Test dummies;
- Part 13.Determination of coefficient of friction of test surfaces;
- Part 14.Requirements and test methods for power and control systems for electric wheelchairs and electric scooters;
- Part 15.Requirements for information release, document issuance and identification;
- Part 16.Flame retardancy of body positioning devices;
- Part 19.Wheeled mobile units capable of serving as seats in motor vehicles;

- Part 21. Electromagnetic compatibility requirements and test methods for electric wheelchairs, electric scooters and battery chargers;
- Part 22. Adjustment procedures;
- Part 25. Batteries and chargers for electric wheelchairs;
- Section 26. Terminology;
- Part 28. Requirements and test methods for stair climbing appliances;
- Part 30. Test methods and requirements for wheelchairs that change the occupant's position.

This document replaces GB/T 18029.6-2009 "Wheelchairs Part 6. Maximum speed, acceleration and deceleration of electric wheelchairs"

Compared with GB/T 18029.6-2009, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Deleted the measurement of acceleration (see Chapter 7 of the 2009 edition);
- The determination of deceleration has been deleted (see Chapter 8 of the 2009 edition).

This document is equivalent to ISO 7176-6:2018 "Wheelchairs Part 6. Determination of the maximum speed of electric wheelchairs".

Introduction

GB/T (Z) 18029 Wheelchairs is a standard for ensuring the performance and quality of wheelchairs and accurately providing these performance and quality to relevant parties.

Wheelchair users want to know the performance and quality of the product, and manufacturers want to know if the product has achieved good quality.

The organization wants to know how to inspect the product. Because GB/T (Z) 18029 is too long, and the parties using the document generally only need

Some of the contents are not updated synchronously, so they are compiled in parts, and are planned to consist of 24 parts.

- Part 1. Determination of static stability;
- Part 2. Determination of dynamic stability of electric wheelchairs;
- Part 3. Determination of braking performance;
- Part 4. Determination of theoretical energy consumption of electric wheelchairs and electric scooters;
- Part 5. Determination of size, mass and operating space;

- Part 6.Determination of the maximum speed of electric wheelchairs;
- Part 7.Measurement of seat and wheel dimensions;
- Part 8.Requirements and test methods for static strength, impact strength and fatigue strength;
- Part 9.Climatic test methods for electric wheelchairs;
- Part 10.Determination of obstacle surmounting capability of electric wheelchairs;
- Part 11.Test dummies;
- Part 13.Determination of coefficient of friction of test surfaces;
- Part 14.Requirements and test methods for power and control systems for electric wheelchairs and electric scooters;
- Part 15.Requirements for information release, document issuance and identification;
- Part 16.Flame retardancy of body positioning devices;
- Part 19.Wheeled mobile units capable of serving as seats in motor vehicles;
- Part 21.Electromagnetic compatibility requirements and test methods for electric wheelchairs, electric scooters and battery chargers;
- Part 22.Adjustment procedures;
- Part 25.Batteries and chargers for electric wheelchairs;
- Section 26.Terminology;
- Part 28.Requirements and test methods for stair climbing appliances;
- Part 30.Test methods and requirements for wheelchairs that change the occupant's posture;
- Part 31.Requirements and test methods for lithium-ion battery systems and chargers for electric wheelchairs;
- Part 32.Test method for durability of castor assemblies for wheelchairs.

Maximum speed is an important factor in choosing a wheelchair that is suitable for an individual. Some people require a wheelchair that is faster, while others prefer a higher speed.

Other parts of the GB/T (Z) 18029 series of standards also require the measurement of the maximum speed of wheelchairs.

This document provides a consistent method for measuring the maximum speed of wheelchairs to facilitate comparison of test results.

Wheelchairs Part 6. Electric wheelchairs

Determination of maximum speed

1 Scope

This document specifies the maximum speed of electric wheelchairs (including electric scooters) with only one passenger and a maximum speed of no more than 15 km/h.

Determination method.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to

This document.

ISO 7176-11 Wheelchairs-Part 11. Test dummies

Note: GB/Z 18029.11-2021 Wheelchairs Part 11. Test dummies (ISO 7176-11.2012, IDT)

ISO 7176-13 Wheelchair-Part 13. Determining the coefficient of friction of test surfaces
(coefficient of friction of test surface)

Note: GB/T 18029.13-2008 Wheelchairs Part 13. Determination of coefficient of friction of test surfaces (ISO 7176-13.1989, IDT)

ISO 7176-15 Wheelchairs-Part 15. Requirements for information release, documentation and marking

(requirements for information disclosure, documentation and labeling)

Note: GB/T 18029.15-2008 Wheelchairs Part 15. Requirements for information release, documentation and marking (ISO 7176-15.1996, IDT)

ISO 7176-22 Wheelchairs-Part 22. Set-up procedures

Note: GB/T 18029.22-2024 Wheelchairs Part 22. Adjustment procedures (ISO 7176-22.2014, IDT)

3 Terms and definitions

There are no terms or definitions that require definition in this document.