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

GB 17498.9-2008

Replacing GB 17498.9-2008

**Indoor stationary training equipment - Part 9: Elliptical trainers -
Additional specific safety requirements and test methods
(English Translation)**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1.Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 9 of GB/T 17498 "Indoor Fixed Fitness Equipment". GB/T 17498 has already published the following parts.

- Part 1.General safety requirements and test methods;
- Part 2.Additional Special Safety Requirements and Test Methods for Strength Training Equipment;
- Part 4.Additional Special Safety Requirements and Test Methods for Strength Training Benches;
- Part 5.Additional special safety requirements and test methods for stationary exercise bikes and upper limb crank exercise equipment;
- Part 6.Additional Special Safety Requirements and Test Methods for Treadmills;
- Part 7.Additional Special Safety Requirements and Test Methods for Rowing Machines;
- Part 8.Additional special safety requirements and test methods for steppers, stair climbers and climbing machines;
- Part 9.Additional Special Safety Requirements and Test Methods for Elliptical Trainers;

---Part 10.Additional special safety requirements and test methods for exercise bikes with fixed wheels or without flywheels.

This document replaces GB 17498.9-2008 "Fixed Fitness Equipment - Part 9.Additional Special Safety Requirements for Elliptical Trainers".

Compared with GB 17498.9-2008, the main technical changes in the "Test Methods" are as follows, except for structural adjustments and editorial modifications.

---Increased strength requirements for the armrests of seated elliptical trainers (see 5.4.3);

---Added requirements for the static load capacity of the seating system (see 5.8);

---Added additional warnings, heart rate accuracy, and applicable requirements (see 5.13);

---Durability testing has been modified, including adjustments to test frequency and pedal load method. Intermittent testing has been removed from speed-dependent elliptical trainers.

See section 6.7 (2008 edition);

--- Friction testing requirements have been added (see 6.11);

---Added test report requirements (see Chapter 7);

---The additional usage instructions (see Chapter 7 of the.2008 edition) have been removed.

This document is modified to adopt ISO 20957-9.2016 "Stationary fitness equipment - Part 9.Special safety features for elliptical trainers".

Requirements and test methods.

The technical differences between this document and ISO 20957-9.2016, and the reasons therefor, are as follows.

---ISO 20957-1 (Chapter 3) has been replaced with the normatively referenced GB/T 17498.1-2026 to adapt to my country's technical standards.

condition;

---ISO 20957-1.2013 has been replaced by the normatively referenced GB/T 17498.1-2026 (see Chapter 4, 5.12, 6.2, 6.4).

6.6, Chapter 7), to adapt to my country's technological conditions.

The following editorial changes have been made to this document.

---To align with existing standards, the standard name has been changed to "Indoor stationary fitness equipment - Part 9.Elliptical trainers supplementary".

Special safety requirements and test methods;

---Delete sections 3.6 and 3.7 from ISO 20957-9:2016; the contents of sections 3.6 and 3.7 are identical to those of section 3.3.

---The value of "60mm" in section 6.2 of ISO 20957-9:2016, "height from the ground", has been corrected to "600mm".

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China National Light Industry Council.

This document is under the jurisdiction of the National Technical Committee on Standardization of Stationery and Sports Equipment (SAC/TC514).

Introduction

GB/T 17498 "Indoor Fixed Fitness Equipment" is divided into 9 parts. Part 1 covers general requirements, while the other parts cover specific requirements for particular equipment.

Special requirements. For fitness equipment covered by special requirements, the safety requirements are a combination of general requirements and these special requirements. GB/T 17498 is proposed.

It consists of 9 parts.

---Part 1. General Safety Requirements and Test Methods. This section aims to describe the general safety requirements and test methods for indoor stationary fitness equipment.

Verification method.

---Part 2. Additional Special Safety Requirements and Test Methods for Strength Training Equipment. The purpose is to describe strength training equipment.

Additional special safety requirements and testing methods for materials.

---Part 4. Additional Special Safety Requirements and Test Methods for Strength Training Benches. The purpose is to describe the specific safety requirements and test methods for strength training benches.

Additional special safety requirements and testing methods for the stool.

---Part 5. Additional special safety requirements and test methods for stationary exercise bikes and upper limb crank exercise equipment. The purpose is to...

This describes the special safety requirements and test methods for stationary exercise bikes and upper limb crank exercise equipment.

---Part 6. Additional Special Safety Requirements and Test Methods for Treadmills. The purpose is to describe the additional special safety requirements for treadmills.

Requirements and test methods.

---Part 7. Additional Special Safety Requirements and Test Methods for Rowing Machines. The purpose is to describe the additional special safety requirements for rowing machines.

Requirements and test methods.

---Part 8. Additional Special Safety Requirements and Test Methods for Steppers, Stair Climbers, and Mountain Climbers. The purpose is to describe the specific safety requirements and test methods for steppers.

Additional special safety requirements and testing methods for ladder machines, stair climbers, and mountaineering machines.

---Part 9. Additional Special Safety Requirements and Test Methods for Elliptical Trainers. The purpose is to describe the additional safety requirements and test methods for elliptical trainers.

Special safety requirements and testing methods.

---Part 10. Additional Special Safety Requirements and Test Methods for Exercise Bikes with Fixed Wheels or Without Freewheels. The purpose is to describe...

Additional safety requirements and testing methods for exercise bikes with fixed wheels or without flywheels.

This document is Part 9 of GB/T 17498 and is used in conjunction with GB/T 17498.1.

Indoor stationary fitness equipment

Part 9. Elliptical Trainer

Additional special safety requirements and test methods

1 Scope

This document specifies additional safety requirements for elliptical trainers beyond the general safety requirements of GB/T 17498.1.

This component is used in conjunction with GB/T 17498.1.

This document also specifies safety requirements for equipment with closed-mode motion and/or reciprocating motion, but does not include pedals performed while standing or seated.

Treadmill.