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

**GB 22790-2008**

Replacing GB/T 22790-2008

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**Cycles - Luggage carriers for bicycles - Requirements and test  
methods**

自行车 衣架

**(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:

This document replaces GB/T 22790-2008 "Bicycle Hangers": Compared with GB/T 22790-2008, except for structural adjustment and editorial Besides the changes, the main technical changes are as follows:

- a) Changed the "scope" (see Chapter 1, Chapter 1 of the:2008 edition);
- b) Changed "Terms and Definitions" (see Chapter 3, Chapter 3 of the:2008 edition);

- c) Changed the "maximum carrying capacity of the luggage rack" (see Chapter 4, Chapter 4 of the:2008 edition);
- d) Deleted "mark" (see Chapter 5 of the:2008 edition);
- e) Added the "general rules" of luggage rack requirements and test methods (see 5.1);
- f) Added "precision" (see 5.2);
- g) Added "crack inspection method" (see 5.3);
- h) Changed the "sharp edge" (see 5.4, 6:1 of the:2008 edition);
- i) Added "reliability of safety-related fasteners" (see 5.5);
- j) Changed the "Minimum Requirements for Rear Luggage Racks That Can Be Installed with Child Seats" (see 5.6, 6:2 of the:2008 edition);
- k) Added "protrusion" (see 5.7);
- l) Added "rear luggage rack---equipped with lighting facilities" (see 5.8);
- m) Deleted "structure" (see 6.3 of the:2008 edition);
- n) Deleted "Materials" (see 6.4 of the:2008 edition);
- o) Changed the requirements and test methods of "Dynamic Load" (see 5.9, Chapter 9 of the:2008 edition);
- p) Changed the "static load --- vertical load" (see 5.10, 8:1, 8:2 of the:2008 edition);
- q) Changed the "static load --- lateral load" (see 5.11, 8:1, 8:3 of the:2008 edition);
- r) Added the requirements and test methods of "static load---longitudinal load" (see 5.12);
- s) Changed the "drop impact test" (see 5.13, Chapter 7 of the:2008 edition);
- t) "Salt spray test" was deleted (see Chapter 10 of the:2008 edition);
- u) Changed the "sign" (see Chapter 6, Chapter 11 of the:2008 edition);
- v) Changed the "Instructions" (see Chapter 7, Chapter 12 of the:2008 edition);
- w) Added "Test Report" (see Chapter 8):

This document is modified to adopt ISO 11243:2016 "Requirements and test methods for two-wheeled bicycle luggage racks for bicycles":

Compared with ISO 11243:2016, this document has more structural adjustments: Changes between this document and ISO 11243:2016 chapter number See Appendix A for a comparison list:

Compared with ISO 11243:2016, this document has more technical differences, and vertical A single line (l) is marked: See Appendix B for a list of these technical differences

and their causes:

Please note that some contents of this document may refer to patents: The issuing agency of this document assumes no responsibility for identifying patents:

## 1 Scope

This document specifies non-bicycle-specific luggage racks for installation (with or without tools) and bicycle racks for installation on fully assembled bicycles:

The safety and performance requirements for the design and test of luggage racks specially equipped for vehicles are given, and the instructions for use and maintenance guidelines for such luggage racks are given:

This document applies to luggage racks mounted on and near the wheels of bicycles:

This document does not apply to permanently fixed luggage racks and portable luggage racks (for example, non-permanently fixed handlebar bags and baskets):

This document does not cover toy racks intended for installation on children's bicycles within the scope of GB 14746:

## 2 Normative references

This document has no normative references:

## 3 Terms and Definitions

The following terms and definitions apply to this document:

Luggage carrier luggage carrier Installed or permanently attached above, and/or adjacent to, the rear wheel of a bicycle (i.e., rear luggage rack); or above, and/or adjacent to, the front wheel (i.e., forward Luggage racks), and devices, including containers, designed to carry children in luggage or seats:

**NOTE:** Containers, eg, storage baskets:

A detachable luggage rack mounted on certain bicycles:

A luggage rack that fits on a variety of suitable bicycles and is sold as a separate accessory:

flat part of a luggage rack (3:1) on which a load can be placed or secured, or top flat beam from which a pannier can be suspended, or container bottom of:

**Note:** The bottom part of the container, for example, the bottom of the storage basket:

The maximum overall length of the roof rack platform (3:4):