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

GB/T 22790-2023

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

自行车 两轮自行车行李架 要求和试验方法

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 The maximum load capacity of the luggage rack	3
3 Test method	15
7 Instructions	16
28 Reference	29

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);

1 Scope

GB/T 22790-2023 sets the requirements and test methods for bicycle luggage carriers. A rack is judged by a load rating printed on it, and in China that rating is treated as advice rather than a limit - carriers routinely take a second passenger, a delivery crate or a child seat. What fails is the fastener or the weld, usually while the bicycle is moving, and the rider goes over with it. The standard therefore concentrates on the fastenings and on dynamic rather than static loading. It sets the maximum load capacity and then the requirements and test methods: accuracy of construction, crack inspection, sharp edges, the reliability of the safety-related fasteners, protrusions, the rear carrier when it carries lighting, and the dynamic load tests with their loading method. It replaces GB/T 22790-2008 and took effect on 1 December 2023.

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: 3:

1 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: 3:2 A detachable luggage rack mounted on certain bicycles: 3:3 A luggage rack that fits on a variety of suitable bicycles and is sold as a separate accessory: 3:4 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: 3:

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