

ICS 43.150
CCS Y14



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

GB 3565.2-2022

**Safety requirements for bicycles - Part 2: Requirements for city
and trekking, young adult, mountain and racing bicycles**

自行车安全要求 第2部分：城市和旅行用自行车、青少年自行车、山地自行车与
竞赛自行车的要求

Issued on: December 29, 2022

Implemented on: October 1, 2023

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

Foreword	4
Introduction	7
1 Scope	9
2 Normative references	10
3 Terms and definitions	12
4 Requirements	12
4.1 Hazardous substances	12
4.2 Sharp edges	12
4.3 Security and strength of security-related fasteners	12
4.4 Crack inspection method	13
4.5 Protrusions	13
4.6 Brakes	13
4.7 Handlebar	19
4.8 Frame	24
4.9 Front fork	26
4.10 Wheels and wheel/tyre assembly	28
4.11 Rims, tyres and tubes	30
4.12 Front mudguard	32
4.13 Pedal and pedal/crank drive systems	32
4.14 Drive chain and drive belt	36
4.15 Chain-wheel and belt-drive protective device	36
4.16 Saddles and seat-posts	39
4.17 Spoke protector	41
4.18 Luggage carriers	41
4.19 Road test of the fully assembled bicycle	42
4.20 Lighting systems and reflectors	42
4.21 Warning device	43
5 Manufacturer's instructions	44
6 Marks	46
6.1 Location and content	46
6.2 Durability test	47

Annex A (informative) Comparison on structural numbers between this document and ISO 4210-2:2015	48
Annex C (informative) Geometric position of handlebar	54
Bibliography	56

Foreword

This document was issued on 29 December 2022 by the State Administration for Market Regulation; Standardization Administration of the PRC and takes effect on 1 October 2023.

It is a GB standard without the /T suffix: compliance is mandatory in China.

1 Scope

GB 3565.2-2022 is a mandatory national standard for bicycle safety, covering the categories a rider actually buys: city and trekking bicycles, young adult bicycles, mountain bikes and racing bikes. Mandatory status is appropriate because a bicycle fails in a particular way - the parts that break are the ones under the rider's weight at speed, the fork, the frame, the handlebar and stem, the wheels, and the brakes - and the consequence of any of them failing is a fall at road speed, usually with no chance to react. The categories are separated because the loads differ: a mountain bike must survive impacts a city bicycle never sees, a racing frame is built lighter and to a different bargain between weight and margin, and a young adult bicycle is ridden by someone lighter but with less judgement. This part specifies the safety and performance requirements for the design, assembly and testing of bicycles and their components across the saddle height ranges it tabulates, together with the associated test methods. Under CCS Y14, it is written for bicycle and component manufacturers, for the certification bodies that approve products for the Chinese market, and for the importers and retailers responsible for what they sell.

This document specifies the security and performance requirements for the design, assembly and testing of bicycles and their components with various saddle heights (see Table 1). It also provides technical guidelines for manufacturers to prepare operating instructions for bicycle use and maintenance.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 3565.1-2022, Security requirements for bicycles -- Part 1.Terms and definitions (ISO 4210-1.2014, MOD)

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 3565.1-2022 apply.

4 Requirements

During normal riding, transportation and maintenance, there shall be no exposed sharp edges anywhere that the rider's hands, legs, etc. may touch. Such as burrs, sharp corners, curling or similar processing.

5 Manufacturer's instructions

Provide instructions (paper, CD, website, etc.) that comply with national regulations, or use visual tools such as pictograms and illustrations. Security information describing the product shall be highlighted.

6 Marks

Carry out the test according to the method described in 4.4 of GB/T 3565.3-2022.The mark shall still be clearly visible. Marks shall not be easily removed. There shall also be no signs of curling.

Annex A for a comparison list of changes in chapter numbers between this document

and ISO 4210-2.2015.

Compared with ISO 4210-2.2015, this document has many technical differences. The involved clauses are marked with a vertical single line (|) in the outer margin of the page. A list of these technical differences and their causes is provided in Annex B.

This document has undergone the following minimal editorial changes.

- Change the document name to "Security requirements for bicycles - Part 2.

Requirements for city and trekking, young adult, mountain and racing bicycles",

so as to coordinate with existing standardization documents.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing authority shall not be held responsible for identifying any or all such patent rights.

This document was proposed by and shall be under the jurisdiction of Ministry of Industry and Information Technology of the People's Republic of China.

Versions of standard substituted by this document are.

- GB 3565-1983 when it was first issued in 1983. The first revision was in 1993. The second revision was 2005;
- This is the second revision.

Annex A

(informative)

Comparison on structural numbers between this document and ISO 4210-2:2015

.....