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GB/T 3565.9-2022

Safety requirements for bicycles - Part 9: Saddle and seat-post test methods

自行车安全要求 第9部分：鞍座与鞍管试验方法

Issued on: December 30, 2022 **Implemented on: October 1, 2023**

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Foreword

This document was issued on 30 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/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

It is classified under ICS 43.150, Chinese classification Y14.

Introduction

GB (/T) 3565 "Safety Requirements for Bicycles" was drafted according to the safety requirements of bicycle products.

To produce bicycles that are as safe as possible. GB (/T) 3565 "Bicycle Safety Requirements" consists of 9 parts.

--- Part 1.Terms and definitions. The purpose is to unify the terminology used in each part of the standard.

--- Part 2.Requirements for city and touring bicycles, youth bicycles, mountain bikes and racing bicycles. purpose is

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Classify the safety requirements of Category 4 bicycles into mandatory national standards for easy enforcement.

--- Part 3.General test methods. The purpose is to centralize and unify the general test methods for bicycle safety requirements and facilitate operation.

--- Part 4.Brake test method. The purpose is to carry out professional tests on the brake requirements in the bicycle safety requirements, and provide a basis for the brake test

Opportunities for method improvement.

--- Part 5.Test methods for handlebars. The purpose is to carry out professional tests on the handlebar requirements in the bicycle safety requirements, and to provide a basis for the handlebar test

Opportunities for method improvement.

--- Part 6.Test methods for frame and fork. The purpose is to conduct a professional review of the requirements for frame and front fork in bicycle safety requirements.

Test and provide opportunities for improved test methods for frames and forks.

--- Part 7.Test methods for wheels and rims. The purpose is to conduct a professional review of the requirements for wheels and rims in bicycle safety requirements

Test and provide opportunities for improvement of test methods for wheels and rims.

--- Part 8.Test methods for pedals and drive systems. The purpose is to meet the requirements for pedals and drive systems in bicycle safety requirements

Conduct specialized tests and provide opportunities for improved test methods for pedal and drive systems.

--- Part 9.Test methods for saddles and saddle tubes. The purpose is to conduct a professional review of the requirements for saddles and saddle tubes in bicycle safety requirements

Test, and provide opportunities for the improvement of test methods for saddles and saddle tubes.

GB 3565.2 is a mandatory national standard, and 7 test method standards (GB/T 3565.3~GB/T 3565.9) are recommended national standards

Standard, used in conjunction with GB 3565.2.These test method standards are designed to ensure the strength and reliability of individual components as well as the complete bicycle

It meets the requirements and requires consideration of safety issues from the design stage.

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The scope of GB (/T) 3565 is limited to product safety considerations. If bicycles are used on public roads, national road traffic regulations must be followed.

Communication safety laws and related management regulations.

To improve repeatability and reproducibility, and to take into account suitability, size and operator effects for all types of bicycles, the test

The machine test method reflects the current advanced level and is more popular than the road test method.

The safety and quality of bicycles is related to the traffic life safety of consumers. Since 1983, my country has released three versions of

GB 3565.It has been 17 years since GB 3565-2005 was issued and implemented.

Provided technical support. GB 3565-2005 "Safety Requirements for Bicycles" is equivalent to ISO 4210.1996 "Safety Requirements for Two-wheeled Bicycles"

Require". In.2014, ISO 4210 was revised and released again, from the original 1 standard to 9 standards. For this reason, GB 3565 also changed from the original 1

One standard was revised into nine standards, and the standard level was synchronized with the international standard, and continued to provide technical support for the safety of bicycle products in my country.

Bicycle Safety Requirements

Part 9.Test methods for saddles and saddle tubes

1 Scope

GB/T 3565.9-2022 covers the bench tests for bicycle saddles and seat-posts - the clamping test that checks the saddle stays where it was set on the post and the post where it was set in the frame, the static load strength of the saddle itself, a fatigue test on the saddle and seat-post assembly, and a two-stage test in which the seat-post is first cycled in fatigue and then, on the same part, loaded statically to strength. That sequence is the point of the clause: a component that passes a strength test while new says little about one that has already absorbed a season of road shock, and seat-posts fail after long service rather than on the first hard landing. A post that snaps or a clamp that slips puts the rider down onto the top tube or the rear wheel with no time to react, and a saddle that rotates under load takes away the rider's control of the bicycle with it. Suspension seat-posts are tested with the damper free or locked, and when locked at maximum length, where the leverage on the post is greatest. Part 9 of the GB/T 3565 series, for saddle and seat-post makers, bicycle assemblers and testing laboratories.

This document describes the clamping of bicycle saddles to saddle tubes, static load

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strength, fatigue tests, fatigue tests plus static load strength tests

method.

This document is applicable to the test of saddles and saddle tube components of bicycle types involved in GB 3565.2.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

GB/T 3565.1 Bicycle Safety Requirements Part 1.Terms and Definitions (GB/T 3565.1-2022, ISO 4210-1.

2014, MOD)

GB 3565.2-2022 Bicycle Safety Requirements Part 2.City and Touring Bicycles, Youth Bicycles, Mountain Bicycles

Requirements for racing bicycles (ISO 4210-2.2015, MOD)

Note. There is no technical difference between the referenced content of GB 3565.2-2022 and the referenced content of ISO 4210-2.2015.

GB/T 3565.3-2022 Bicycle Safety Requirements Part 3.General Test Methods (ISO 4210-3.2014, IDT)

3 Terms and Definitions

The terms and definitions defined in GB/T 3565.1 apply to this document.

4 Test method

4.1 Overview

For shock-absorbing saddle tubes, the test can be carried out with the shock-absorbing device in a free state or in a locked state. If the shock absorber is locked, the saddle tube

The test shall be carried out at the maximum length.

4.2 Saddle/saddle tube---clamping test

Correctly assemble the saddle tube on the bicycle frame with the minimum insertion depth

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