GB 14746-2006

Translated English of Chinese Standard: GB14746-2006

<u>www.ChineseStandard.net</u> → Buy True-PDF → Auto-delivery.

<u>Sales@ChineseStandard.net</u>

GB

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

ICS 97.190

Y 57

GB 14746-2006 / ISO 8098:2002

Replacing GB 14746-1993, GB 13472-1992

Safety requirements for bicycles for young children

儿童自行车安全要求

(ISO 8098:2002, IDT)

Issued on: February 21, 2006 Implemented on: January 01, 2007

Issued by: General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China;

Standardization Administration of the People's Republic of China.

Table of Contents

Foreword	5
1 Scope	7
2 Terms and definitions	7
2.1 cycle	7
2.2 bicycle	7
2.3 saddle height	7
2.4 braking force	7
2.5 (pedal) tread surface	8
2.6 maximum inflation pressure	8
2.7 stabilizers	8
2.8 exposed protrusion	8
3 Technical requirements	8
3.1 General	8
3.1.1 Sharp edges	8
3.1.2 Protrusions	8
3.1.3 Security and strength of safety-related fasteners	11
3.2 Brakes	11
3.2.1 Braking system	11
3.2.2 Hand-operated brake	11
3.2.3 Back-pedal brake	13
3.2.4 Strength of braking system	13
3.2.5 Braking performance	13
3.3 Steering	14
3.3.1 Handlebars	14
3.3.2 Handlebar grips	14
3.3.3 Handlebar stem	14
3.3.4 Steering stability	15

www.ChineseStandard.net --> Buy True-PDF --> Auto-delivered in 0~10 minutes.

GB 14746-2006

3.3.5 Strength of steering assembly	15
3.4 Frame/fork assembly	15
3.4.1 Impact test (falling mass)	15
3.4.2 Impact test (falling frame/fork assembly)	15
3.5 Front fork	15
3.6 Wheels	16
3.6.1 Rotational trueness	16
3.6.2 Clearance	16
3.6.3 Static load test	16
3.6.4 Wheel retention	16
3.7 Tyres and tubes	17
3.7.1 Maximum inflation pressure	17
3.7.2 Compatibility of inflatable tyres and rims	17
3.8 Pedals and pedal/crank assembly	17
3.8.1 Pedal tread	17
3.8.2 Pedal clearance	17
3.8.3 Pedal/crank assembly kinetic test	18
3.9 Saddle	19
3.9.1 Limiting dimensions	19
3.9.2 Seat pillar	19
3.9.3 Saddle adjustment clamp	19
3.9.4 Saddle strength	19
3.10 Drive system static load test	19
3.11 Chainguard	19
3.12 Stabilizers	20
3.12.1 Dimensions	20
3.12.2 Vertical load test	20
3.12.3 Longitudinal load test	20
3.13 Instructions	21

www.ChineseStandard.net --> Buy True-PDF --> Auto-delivered in 0~10 minutes.

GB 14746-2006

	3.14 Marking	21
4 T	est methods	22
	4.1 General	22
	4.2 Brake block test	22
	4.3 Braking system load test	22
	4.3.1 Hand-operated brake	22
	4.3.2 Back-pedal brake	23
	4.4 Hand-operated brake performance test	23
	4.5 Back-pedal brake performance test	24
	4.6 Steering assembly test	25
	4.6.1 Handlebar stem	25
	4.6.2 Torque test - Handlebar and stem	26
	4.6.3 Torque test - Handlebar stem and fork stem	27
	4.7 Impact tests on frame/fork assembly	28
	4.7.1 Falling mass test	28
	4.7.2 Falling frame/fork assembly test	29
	4.8 Static load test: wheel	30
	4.9 Pedal/crank assembly kinetic test	30
	4.10 Static load test - Saddle and pillar	31
	4.11 Drive-system static load test	31
	4.11.1 General	31
	4.11.2 Single-speed system	31
	4.11.3 Multispeed system	31
	4.12 Stabilizers - Vertical load test	32
	4.13 Stabilizers - Longitudinal load test	32
	4.14 Saddle strength test	33

Foreword

The technical subclauses of Clause 3 of this Standard are mandatory, and the remaining subclauses are recommended.

This Standard is identical to the International Standard ISO 8098:2002 "Cycles - Safety requirements for bicycles for young children".

This Standard applies to bicycles intended to be ridden by young children aged from four to eight years (bicycles having saddle heights between 435 mm and 635 mm). These bicycles are not intended to be ridden on public roads and shall not be presumed to be suitably equipped for being ridden on public roads (toy bicycles having saddle heights less than 435 mm shall meet the requirements of GB 6675 "National safety technical code for toys").

Bicycles that meet the requirements of this Standard are not toy bicycles and therefore are not in the category of toy safety.

This Standard is not applicable to bicycles intended for stunting.

Compared with GB 14746-1993, the main changes of this Standard are as follows:

- GIVE a more detailed description of protrusions, with a figure for examples; (3.1.2)
- ADD the safety requirements for fasteners; (3.1.3)
- IMPROVE the requirements for the brake system; (3.2.1.1)
- ADD the requirements for handlebar grips; (3.3.2)
- IMPROVE the strength requirements for the frame/fork assembly; (3.4)
- IMPROVE the requirements for the rotational trueness of wheels; (3.6.1.2; 3.6.1.3)
- INCREASE the clearance between the tyre and the frame, fork, mudguard or mudguard fixing after assembly of wheels to prevent fingers from being pinched; (3.6.2)
- ADD the requirements for wheel retention; (3.6.4)
- ADD the requirements for saddle strength. (3.9.4)

From the date of implementation, this Standard replace GB 14746-1993 "Safety requirements for bicycles for young children" and GB 13472-1992 "Safety

GB 14746-2006

requirements of BMX children bicycles".

This Standard was proposed by China Light Industry Association.

This Standard shall be under the jurisdiction of National Technical Committee on Toys of Standardization Administration of China.

Drafting organizations of this Standard: Certification Center of Light Industry Council, Shanghai Bicycle Research Institute, Industrial Products Testing Technology Center of Guangzhou Entry-Exit Inspection and Quarantine Bureau, Good Baby Children's Products Co., Ltd., Guangdong Foshan Yonghua Vehicle Co., Ltd.

Main drafters of this Standard: Ruan Zhicheng, Li Bingzhong, Li Junqi, Zhang Chengbin, Wang Xuhua.

The previous released versions replaced by this Standard are as follows:

- GB 14746-1993, GB 13472-1992.

Safety requirements for bicycles for young children

1 Scope

This Standard specifies terms and definitions of bicycles for young children of from about four to eight years of age, as well as these bicycles' safety and performance requirements and test methods for the design, assembly and testing. It also provides guidelines for instructions on the use and care of the bicycles.

This Standard is applicable to bicycles with a maximum saddle height of more than 435 mm and less than 635 mm, propelled by a transmitted drive to the rear wheel.

This Standard is not applicable to special bicycles intended for stunting.

2 Terms and definitions

For the purposes of this Standard, the following terms and definitions apply.

2.1 cycle

Any vehicle that has at least two wheels and is propelled solely by the muscular energy of the person on that vehicle, in particular by means of pedals.

2.2 bicycle

Two-wheeled cycle.

NOTE: The bicycles in this Standard refer to two-wheeled cycles.

2.3 saddle height

Vertical distance from the ground to the top of the seat surface, measured with the seat in a horizontal position and with the seat pillar set to the minimum insertion depth.

2.4 braking force

Force tangential to the tyre resisting rotation of the wheel when the brake is applied.

This is an excerpt of the PDF (Some pages are marked off intentionally)

Full-copy PDF can be purchased from 1 of 2 websites:

1. https://www.ChineseStandard.us

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. https://www.ChineseStandard.net

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies https://www.ChineseStandard.us).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): https://www.chinesestandard.net/AboutUs.aspx

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: https://www.linkedin.com/in/waynezhengwenrui/

----- The End -----