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General Safety Specification of Umbrellas

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Foreword

Chapter 5 of this Standard is compulsory; the others are voluntary.

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

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

This Standard was proposed by China National Light Industry Council.

This Standard shall be under the jurisdiction of the National Standardization Center of Sundry Articles.

The drafting organizations of this Standard: Hangzhou Paradise Umbrella Group Co., Ltd., Sun City Outdoor Products Technology Co., Ltd., Beijing 1st Institute of Quality Supervision and Inspection of Light Industrial Products, Yuzhongniao (Fujian) Outdoor Products Co., Ltd., Jiangxi Qinde Industrial Co., Ltd., Zhejiang Hongye Umbrella Co., Ltd., Fulong (Fujian) Umbrella Co., Ltd., Zhejiang Friendship Feinuo Umbrella Co., Ltd., Shaoxing Jinding Umbrella Co., Ltd., Quanzhou Hongli Umbrella Co., Ltd., Rixin Textile Co., Ltd., Susino Umbrella Co., Ltd., Zhejiang Tianwei Umbrella Co., Ltd., Jinjiang Jialemei Umbrella Co., Ltd., Fujian Jicheng Umbrella Co., Ltd., Fujian Yusimeng Umbrella Co., Ltd., Hongtai (Fujian) Rain Gear Parts Co., Ltd., Swift (Fujian) Umbrella Co., Ltd. and Xiamen Tongan Hexin Umbrella IND. Co., Ltd.

The main drafters of this Standard: Li Chuanhe, Wang Qiwei, He Lingjun, Cai Rongtuan, Ding Jingtang, Cai Jinbang, Yu Chengrong, Wang Wenbi, Lv Miaofen, Lv Xinmiao, Lv Yayan, Lv Shiliang, Wang Anbang, Pan Wei, Xiao Qingjiang, Huang Wenji, Liu Jishan, Cai Rongyong, Xu Youcan, Lu Jingxiang, Wu Hengyou, Zhou Xiaomei, Wei Xiaoying, Wang Xinyao, Cheng Xiaohu and Zhao Peng.

General Safety Specification of Umbrellas

1 Application Scope

This Standard specified the term and definition, product classification, requirements, test method, inspection rules and marking, packaging, transportation and storage of umbrellas.

This Standard applies to handheld umbrella and fixed umbrella whose umbrella cover and stand are made of different materials.

This Standard does not apply to children umbrellas.

2 Normative References

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

GB/T 2828.1-2012, *Sampling procedures for inspection by attributes – Part1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

GB/T 2829-2002, *Sampling procedures and tables for periodic inspection by attributes (Apply to inspection of process stability)*

GB/T 2912.1, *Textiles – Determination of formaldehyde – Part 1: Free and hydrolyzed formaldehyde (water extraction method)*

GB 4706.1, *Safety of household and similar electrical appliances – Part 1: General requirements*

GB 6675.4-2014, *Safety of toys – Part 4: Migration of certain elements*

GB/T 17592, *Textiles – Determination of the banned azo colourants*

GB/T 18830, *Textiles – Evaluation for solar ultraviolet radiation protective properties*

GB/T 23103-2008, *Beach umbrella*

GB/T 23147-2008, *Umbrella*

QB/T 1101-2012, *Paper umbrella*

QB/T 4151-2010, *Art umbrella*

QB/T 4152-2010, *Plastic umbrella*

3 Terms and Definitions

For the purpose of this document, the following term and definition applies.

3.1

pinch point

a point causing injury because of being pinched by two rigid parts

4 Classification

4.1 They can be divided in accordance with the forms of opening and closing into hand-open and hand-close umbrella, hand-open and auto-close umbrella, auto-open and hand-close and auto-open and auto-close umbrella.

4.2 They can be divided in accordance with the structures of umbrella shaft into stick umbrella and folding umbrella.

4.3 They can be divided in accordance with the applications into handheld umbrella and fixed umbrella.

4.4 Handheld umbrella can be divided into all-weather umbrella, plastic umbrella, oilcloth umbrella, paper umbrella, art umbrella and so on.

4.5 Fixed umbrella can be divided into beach umbrella, garden umbrella and so on.

5 Requirements

5.1 Umbrella cap or top (ferrule)

5.1.1 The length of umbrella cap or top (ferrule) shall not be more than 95 mm.

5.1.2 The shape of umbrella cap or top (ferrule) shall be spherical, rounded or cambered, whose top diameter shall not be less than 8 mm.

5.2 Tip

5.2.1 The end face of the tip of handheld umbrella shall be spherical or cambered; the diameter of the tip shall not be less than 8 mm.

6.2 Tip

6.2.1 Carry out visual inspection for the end face of the tip of handheld umbrella; use a Vernier calliper with the minimum division value 0.02 mm to measure the diameter of the tip directly.

6.2.2 Before the test, mark the exposed part of the connection between the rib and tip of handheld umbrella; after pulling the rib from the tip, use a ruler with the minimum division value 0.5 mm to measure the length along the marked part to the interposition.

6.2.3 Fix the rib and tip of handheld umbrella on the upper and lower clamps of the tensile tester; carry out the test at the speed (50 ± 10) mm/min until the rib and tip separate; carry out the test for 3 times and take the minimum value.

6.2.4 Cut out test pieces of 120 mm in length and 50 mm in width from the cover of handheld umbrella; fix the tip and cover respectively on the upper and lower clamps of the tensile tester with the middle distance 80 mm; carry out the test at the speed (50 ± 10) mm/min until the rib and tip separate; carry out the test for 3 times and take the minimum value.

6.3 Requirements for safety in use

6.3.1 Carry out visual inspection and hand-feeling inspection.

6.3.2 Carry out visual inspection and hand-feeling inspection during the opening and closing process to examine whether there is any pinch point.

6.3.3 Grip the handle to rotate for 3 times to and fro; open and close umbrella for 5 times; and observe whether it is out of control.

6.4 Parts binding fastness

Beach umbrella and garden umbrella shall be tested in accordance with GB/T 23103-2008. All-weather umbrella and plastic umbrella shall be tested in accordance with GB/T 23147-2008. Art umbrella shall be tested in accordance with QB/T 4151-2010. Paper umbrella shall be tested in accordance with QB/T 1101-2012. Fix the shaft of oilcloth umbrella, hang weights on the handle or use a force determination device, apply a tensile force 150 N along the axial direction of the shaft and maintain it for 1 min; fix the shaft, apply a static tensile force 70 N along the axial direction of the shaft between the shaft and notch and maintain it for 1 min.

6.5 Limit of hazardous substances

6.5.1 Hazardous elements shall be tested in accordance with GB 6675.4-2014.

6.5.2 Migratable lead content shall be tested in accordance with GB 6675.4-2014.

6.5.3 Formaldehyde content shall be tested in accordance with GB/T 2912.1.

	beach umbrella						
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7.2.4 Limit of hazardous substances shall be as specified in 5.5; or else, the type inspection is determined to be a fail.

7.2.5 The type inspection is determined to be a fail if one item is a fail.

8 Marking, Packaging, Transportation and Storage

8.1 Marking

8.1.1 Each umbrella shall be provided with the following information in Chinese:

- a) product name;
- b) manufacturer name and address;
- c) product quality inspection qualification marking;
- d) a reference to the standard;
- e) expressly indicated ultraviolet product (if applicable);
- f) product type;
- g) trademark;
- h) dimensions; and
- i) instructions (if necessary).

8.1.2 The boxes for the products shall be provided with the following information in Chinese:

- a) product name;
- b) manufacturer name and address;
- c) product type;
- d) trademark; and
- e) dimensions and quantity.

8.2 Packaging

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Contact: Wayne Zheng, Sales@ChineseStandard.net

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

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