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

GB/T 23147-2018

Replacing GB/T 23147-2008

Umbrellas

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 23147-2008 "Rainbow". Compared with GB/T 23147-2008, the main technology except editorial modification The changes are as follows:

- Added normative references (see Chapter 2, Chapter 2 of the.2008 edition);
- Modified terms and definitions (see Chapter 3, Chapter 3 of the.2008 edition);
- Increased general requirements and test methods (see
- Modified sewing and size requirements (see
- 5.4 and 5.5,.2008 versions
- Revised product integrity requirements and test methods (see
- 5.6 and 6.6,.2008 versions
- Removed the use of security requirements and test methods (see.2008 editions
- Removed switch performance requirements and test methods (see.2008 editions
- Revised the opening and closing force requirements and test methods for self-opening and self-opening umbrellas (see
- 5.8 and 6.8,.2008,
- Removed the component bonding fastness requirements and test methods (2008 version
- Modified the number of trouble-free continuous switching requirements (see 5.10,

1 Scope

China's national product standard for umbrellas. It specifies the product classification, the requirements, the test methods, the inspection rules and the marks, packaging, transport and storage, and it applies to fabric umbrellas, plastic umbrellas and umbrellas built on

frames of various materials. Where GB/T 23103 covers the sun umbrella and its ultraviolet claim, this standard covers the umbrella that has to keep rain off and survive being used in wind. Those are mechanical problems and the requirements are correspondingly mechanical. Water resistance comes first: the fabric must not let water through under the conditions of use, and the seams and the tip are where it does. Then the frame, which is where an umbrella actually fails. A ribbed canopy in a gust is a structure loaded in a direction it was not designed for, and it either inverts and recovers or inverts and breaks; the standard therefore specifies the wind resistance and the number of inversion cycles the frame must survive, along with the strength of the ribs and stretchers and of the joints between them. The opening and closing mechanism is tested over a number of cycles because it is the part that is operated most and the part whose failure ends the product's life while everything else is intact. And the canopy-to-rib attachment is specified separately because that is where a canopy tears. Around them sit the colour fastness to light and to rubbing, the dimensions, the safety requirements on the rib ends and the tip, and the chemical limits that apply to consumer textiles. Issued on 14 May 2018 and in force since 1 December 2018, it replaces GB/T 23147-2008.

This standard specifies the product classification, requirements, test methods, inspection rules and signs, packaging, transportation and storage of the umbrella. This standard applies to fabric umbrellas, plastic umbrellas and umbrellas made of different material umbrella stands.

2 Normative references

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

GB/T 250-2008 Textile color fastness test

GB/T 251-2008 Textile color fastness test evaluation gray sample card for staining

GB/T 2828.1-2012. Sampling procedures for sampling by sampling - Part 1 . Batch-by-batch inspections by Retrieving Quality of Acceptance (AQL) plan

GB/T 2829-2002 Periodic inspection count sampling procedures and tables (applicable to the inspection of process stability)

GB/T 5713 Textile color fastness test color fastness to water

GB/T 18457-2015 Stainless steel needle tube for medical devices

GB/T 18830 Textiles for evaluation of UV protection properties

GB 28477 Children's Umbrella Safety Technical Requirements

GB 31892 Umbrella product safety general technical conditions

GB/T 31895 Umbrella products wind strength test method QB/T 3826 Light-resistant products - Metallic coatings and chemically treated layers - Corrosion-resistant test method - Neutral salt spray test (NSS) QB/T 3832-1999 Evaluation of corrosion test results of metal coatings for light industrial products QB/T 4152-2010 plastic umbrella QB/T 4743 Umbrella Product Specifications

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Child umbrella childumbrela Umbrella for children from the center of the umbrella cap or umbrella top to the center of the beveled bead hole (slot) 50cm or less (including 50cm).

3.2 Compressed umbrella force compressiveforceoftheumbrelarod The force from the opening of the umbrella compression umbrella to the closing of the umbrella slot.

4 Product Categories

4.1 According to the switch umbrella form can be divided into hand open umbrella, self-opening umbrella, self-opening umbrella.