

ICS 59.080.30

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

GB/T 20390.1-2018

Replacing GB/T 20390.1-2006

**Textiles -- Assessment of the ignitability of bedding items --
Part 1: Ignition source: smouldering cigarette**

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Foreword

GB/T 20390 "Assessment of ignitability of textile bedding" is divided into two parts.

--- Part 1. Cigarettes are the source of ignition;

--- Part 2. The ignition source equivalent to the match flame.

This part is the first part of GB/T 20390.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 20390.1-2006 "Combustion performance of textile bedding Part 1. Cigarettes as ignition source

The flammability test method, compared with GB/T 20390.1-2006, the main differences are as follows.

--- Add a "warning" prompt before the first chapter;

--- Adding GB/T 17596, GB/T 19981.3, GB/T 19981.4 and GB/T 3291.3-1997 to the normative references

Four criteria (see Chapter 2);

--- Add ten terms definitions in terms and definitions (see Chapter 3);

--- Add "the actual use of the mattress can replace the test substrate" in the principle (see Chapter 4);

--- Increase the "ignition of smoldering cigarette within 1 hour" in the igniting of progressive smoldering [see 5.1b)];

--- The size of the wire plate is changed from "(400 +/- 50) mm" to "the size is at least 450 mm x 450 mm" (see 7.1,.2006)

Version 7.1);

---Modified the length, quality of the ignition source cigarette, the smoldering rate during the test, modified the marking position on the cigarette, and increased the "cigarette

The burning rate can be measured simultaneously with two cigarettes, the distance between cigarettes and each cigarette and the nearby surface, such as the wall of the test environment

Surface or floor should be at least 150mm" (see 7.3, 7.3 of.2006 edition);

---In the test substrate, "the nominal size of the test substrate is 450mm x 450mm x 25mm" is modified to "the size of the test substrate should be

Corresponding to the size of the test frame (+/-10mm), the thickness is (25+/-5)mm" (see 7.5, 7.5 of.2006 edition);

---Modified washing requirements (see Chapter 8, Chapter 8 of the.2006 edition);

--- Increase "samples should be tested after washing according to Chapter 8" (see 9.2);

--- Add a description of the additional burning test required for the embroidery, rope and other style design in the sample, delete the 10.1 and 10.2 numbers and labels

Problem, delete "only one sample is needed" and adjust some parts to 11.4.1 (see Chapter 10 and 11.4.1,.2006 edition)

Chapter 10);

--- Adjust the contents of Note 1 and Note 2 in the preparation of the test procedure to the text (see 11.1, 11.1 of the.2006 edition);

--- Increase the title of 11.3, and adjust the number and content of 11.1.1~11.1.5 to 11.3.1~11.3.5 (see 11.3,.2006 edition)

11.1);

--- Placement of the sample and the position requirements of the cigarette, the number of cigarettes of the flat bedding that will not be folded when used will be repaired by "4"

Changed to "2" (see 11.3.1, 11.1.1 of the.2006 edition);

--- The placement of the sample and the position requirements of the cigarette, the number of cigarettes in the flat bedding that would normally be folded when used is "1"

Revised to "2" (see 11.3.2, 11.1.2 of the.2006 edition);

--- The placement of the sample and the position requirements of the cigarette, the number of cigarettes to be quilted is changed from "3" to "6" (see 11.3.3,.2006)

Version 11.1.3);

--- The placement of the sample and the position requirements of the cigarette, the number of cigarettes for the pillow/long pillow and the quilt was changed from "2" to "4",

Add "For a quilted pillow/long pillow or quilt, add 2 cigarettes to the quilt" (see 11.3.4 and

11.3.5,

11.1.4 and 11.1.5 of the 2006 edition);

--- Add 11.4 title and 11.4.1 title and content (see 11.4);

--- Adjust the contents of Chapter 10 to 11.4.2, 11.1.6 and 11.1.7 to 11.4.2.1 and 11.4.2.2 respectively (see 11.4.2, 2006)

Chapters 10, 11.1.6 and 11.1.7);

--- Increase the size of the combined sample of the combined test when the sample is sampled as a complete piece (see 11.4.2.1);

--- Change the number of cigarettes in the placement of the combined sample from "one" to "two" (see 11.4.2.1 and 11.4.2.2, 2006 edition)

11.1.6 and 11.1.7).

This section uses the redrafting method to modify the use of ISO 12952-1:2010 "Textile bedding ignitability assessment Part 1

Points. Cigarettes are the source of ignition.

The technical differences between this part and ISO 12952-1:2010 and their reasons are as follows.

---About the normative reference documents, this part has made technical adjustments to adapt to China's technical conditions, adjustments

The situation is reflected in Chapter 2, "Regulatory Citations", and the specific adjustments are as follows.

- * Replaced ISO 6330 with GB/T 8629-2017 modified to adopt international standards;
- * Replace ISO 10528 with GB/T 17596 equivalent to the international standard;
- * Replaced ISO 3175-2 with GB/T 19981.2 modified to international standards;
- * Replace ISO 3175-3 with GB/T 19981.3, which is equivalent to the international standard;
- * Replace ISO 3175-4 with GB/T 19981.4 equivalent to the international standard;
- * Replace ISO 4880 with GB/T 3291.3-1997 containing all the contents of ISO 4880.

--- Name the humidity control condition in the ISO standard as condition A, and increase the humidity control condition B. Select the humidity control condition as needed, and increase the

The scope of the standard application.

This part was proposed by the China National Textile and Apparel Council.

This part is under the jurisdiction of the National Textile Standardization Technical Committee (SAC/TC209).

This section drafted by. China Textile Standard Inspection and Certification Co., Ltd., Yueyue Home Textile Co., Ltd., IKEA China Testing and Training Center, Lake State Rui Gaoxin Materials Co., Ltd.

1 Scope

This part of GB/T 20390 specifies the test method for assessing the ignitability of all bedding products when applying smoldering cigarettes.

This section applies to bedding placed on a mattress, such as.

- Mattress cover;
- Interlining;
- Nursing list and nursing pad;
- Bed sheets;
- blanket;
- Electric blankets;
- quilt and quilt cover;
- Pillows (regardless of the material of the filler) and long pillows;
- pillow case.

This section does not apply to mattresses, bed bases and mattresses.

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 3291.3-1997 Textiles and textile materials - Performance and test terms - Part 3

GB/T 8629-2017 Home washing and drying procedures for textile testing (ISO 6330.2012, MOD)

GB/T 17596 Commercial washing procedure before textile fabric burning test (GB/T 17596-1998, eqvISO 10528.

1995)