

ICS 59.080.30

CCS W 04



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

GB/T 20390.2-2018

Replacing GB/T 20390.2-2006

**Textiles -- Assessment of the ignitability of bedding items --
Part 2: Ignition source: match-flame equivalent**

Issued on: December 28, 2018

Implemented on: July 1, 2019

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Foreword

1 Scope

2 Normative references

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 second 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 20390.2-2006 "Textile bedding combustion performance Part 2. Small flames for ignition sources"

The ignitability test method, compared with GB/T 20390.2-2006, 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 reference documents

Four criteria (see Chapter 2);

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

--- In the igniting of progressive smoldering, "the sample is burned to substantially burned during the test" is modified to "the sample is removed from the ignition source"

Within 15 minutes, the smoldering burns to the basic burnout", and the "distance from the original point of the ignition source is more than 100mm" (see

5.1, version 5.1 of the 2006 edition;

--- Increase the igniting discrimination of flaming combustion "the sample burns to the basic burnout during the test" (see 5.2);

--- The size of the wire plate in the test frame was changed from "(400 +/- 50) mm" to "the size is at least 450 mm x 450 mm" (see

7.1,.2006 edition of 7.1);

--- The ignition source was changed from "propane gas" to "butane gas" (see 7.3, 7.3 of.2006 edition);

--- Add footnote 1) (see 7.3);

---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);

--- Refined the washing and drying process (see Chapter 8, Chapter 8 of the.2006 edition);

--- Add "test specimens to be tested after washing according to Chapter 8" (see 9.2);

--- Adding instructions for additional combustion tests for embroidery, rope and other style designs, remove the 10.1 and 10.2 numbers

And the title, delete "only one piece of sample" and adjust some of the content to 11.4.1 (see Chapter 10 and 11.4.1,.2006)

Chapter 10 of the annual edition);

--- 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 description of the case when the sample is sampled as a complete piece (see 11.4.2.1);

--- Add 11.3 number and title, delete the original standard 11.1.1 title and adjust its content to the new standard 11.2, and

11.1.2~11.1.5 The number and content are adjusted to 11.3.1~11.3.4 (see 11.2 and 11.3, version 11.1 of.2006);

--- Increase the number and title of 11.4 and 11.4.1 (see 11.4);

--- Adjust 11.1.6 and 11.1.7 to 11.4.2.1 and 11.2.4.2 respectively (see 11.4.2.1 and 11.4.2.2, 11.16 of the.2006 edition)

And 11.1.7);

--- Increase the description of the case when the sample is sampled as a complete piece (see 11.4.2.1).

This section uses the redrafting method to modify the use of ISO 12952-2.2010 "Textile bedding ignitability assessment Part 2

Points. The ignition source equivalent to the match flame."

The technical differences between this part and ISO 12952-2:2010 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 12952-1 with GB/T 20390.1 modified to adopt international standards;
- * 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: Hangzhou Huali Industrial Group Co., Ltd., China Textile Standard Inspection and Certification Co., Ltd., Wenzhou Darong Textile Instrument

Co., Ltd., Huzhou Ruigao New Materials Co., Ltd.

1 Scope

This part of GB/T 20390 specifies the ignitability of all bedding products when applying an ignition source comparable to a match flame.

experiment method.

This section applies to bedding on mattresses, 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)

GB/T 19981.2 Professional maintenance, dry cleaning and wet cleaning of textile fabrics and garments - Part 2. Dry cleaning with tetrachloroethylene and

Procedure for performance testing during ironing (GB/T 19981.2-2014, ISO 3175-2.2010, MOD)

GB/T 19981.3 Professional maintenance, dry cleaning and wet cleaning of textile fabrics and garments - Part 3. Dry cleaning using hydrocarbon solvents and

Procedure for performance testing during ironing (GB/T 19981.3-2009, ISO 3175-3.2003, IDT)

GB/T 19981.4 Professional maintenance, dry cleaning and wet cleaning of textile fabrics and garments - Part 4. Using simulated wet cleaning and finishing

Procedure for hot performance test (GB/T 19981.4-2009, ISO 3175-4.2003, IDT)

GB/T 20390.1 Evaluation of ignitability of textile bedding Part 1. Cigarettes as ignition