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

GB/T 18799-2020

Replacing GB/T 18799-2008

Household and similar electric irons performance test method

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Measurement of various types of irons	4
5 General conditions of measurement	5
6 General requirements	6
7 Temperature measurement	7
8 Spray function evaluation	8
9 Measurements involving steam work	9
10 Evaluation of ironing	13
11 Measurement of input power and energy consumption	15
12 Floor board evaluation	16
13 Thermostat stability measurement	18
14 Measurement of the total evaporation time of hard water	19
15 Instructions for use	20
16 Information at the point of sale	20

Foreword

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

This standard replaces GB/T 18799-2008 "Test Methods for the Performance of Household and Similar Electric Irons". This standard and GB/T 18799-

The main technical changes compared to.2008 are as follows.

---Modified the definition of "automatic cut-off device" (see 3.13, 3.13 of the.2008 edition);

--- Modify "Measurement voltage" to "Measurement voltage and frequency" and re-specify (see 5.3, 5.2 in.2008 edition);

--- Added anti-circumvention clauses (see 5.12);

---Modified the measurement test of the heating time of the steam operation of the open steam electric iron (see 9.1.1, 9.1.1 in the.2008 edition);

---Modified the measurement test of the evaporation time, evaporation rate and water leakage rate of the open steam iron (see 9.2.1, 9.2.1 of the.2008 edition);

---Modify the height between the container and the bottom plate to 500mm +/- 50mm [see 9.2.2 and Figure 4b), the.2008 edition of 9.2.2 and Figure 4b)];

---The tolerance and control procedure of the steam rate have been increased (see 9.2.3);

--- Deleted the remarks for the open steam iron with electric pump (see Chapter 14 of the.2008 edition);

---Added the measurement of the total evaporation time of hard water in non-pressure steam irons (see 14.1);

---Added the measurement of the total evaporation time of hard water in a pressure steam iron or a fast steam iron (see 14.2);

---Modified the description of hard water for testing (see 14.1 and 14.2, Chapter 14 of the.2008 edition);

---Modified the formula in Figure 2 (see Figure 2, Figure 2 of the.2008 edition);

---Modified the heating time measurement test device diagram of the open-type steam iron steam operation [see Figure 4a), Figure 4a) of the.2008 edition];

--- Deleted Appendix E (see Appendix E of the.2008 edition).

The translation method used in this standard is equivalent to IEC 60311.2016 "Test Methods for the Performance of Household and Similar Electric Irons".

The Chinese documents that have a consistent correspondence with the international documents cited in this standard are as follows.

---GB/T 3923.1-2013 Tensile properties of textile fabrics Part 1.Determination of breaking strength and elongation at break (Article

Sample method) (ISO 13934-1.1999, MOD)

---GB/T 4668-1995 Determination of the density of woven fabrics (ISO 7211-2.1984, NEQ)

---GB/T 4669-2008 Determination of mass per unit length and mass per unit area of textile woven fabrics (ISO 3801.1977, MOD)

---GB/T 7568.1-2002 Textile color fastness test wool standard lining fabric specifications (ISO 105-F01.2001, MOD)

---GB/T 7568.3-2008 Textile Color Fastness Test Standard Laminated Fabric Part 3.Polyamide Fiber

(ISO 105-F03.2001,MOD)

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

---GB/T 9279.1-2015 Determination of scratch resistance of paints and varnishes Part 1.Constant load method (ISO 1518-1.2011, IDT)

---GB/T 23119-2017 Water for performance testing of household and similar electrical appliances (IEC 60734.2012, IDT)

---GB/T 24218.2-2009 Textile nonwovens test methods Part 2.Determination of thickness (ISO 9073-2.1995, MOD)

This standard was proposed by the China National Light Industry Council.

This standard is under the jurisdiction of the National Household Appliances Standardization Technical Committee (SAC/TC46).

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1 Scope

This standard applies to electric irons for household and similar purposes.

The purpose of this standard is to describe and define the basic performance characteristics of household and similar electric irons that are of interest to users, and to describe the test results.

Standard methods for these characteristics.

The electric irons included in this standard are.

---Dry iron;

---Steam iron;

---Open steam iron with electric pump;

---Spray iron;

---Steam iron with a separate water container or evaporator/generator with a capacity not

exceeding 5L.

This standard neither involves safety nor performance requirements.

Note. The primary feature considered in the performance evaluation of electric irons is the basic ability to iron the fabric flat without causing scorching or other damage to the fabric.

It is impossible to measure this characteristic stably and repeatedly with a single method. Therefore, these parameters are included in the test of the electric iron.

For example, the temperature at the midpoint of the bottom plate, the temperature distribution of the bottom plate and other parameters that can affect its basic characteristics. When evaluating the quality of an electric iron, these can

Any unforeseen result of the parameters that greatly affect the performance, in the comprehensive consideration of the results, there is a noteworthy limit that can be given

Satisfactory ironing performance, that is, don't pay too much attention to the subtle differences in individual results.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

ISO 105-F01 Textile color fastness test. Specification for wool lining fabrics

ISO 105-F02 Textile Color Fastness Test Specification for Cotton and Viscose Lining Fabrics

ISO 105-F03 Textile Color Fastness Test Specification for Polyamide Lined Fabric

ISO 1518-1 Determination of scratch resistance of paints and varnishes Part 1.Constant load method

ISO 2409.2013 Paint and varnish cross cutting test

ISO 3801 Determination of mass per unit length and mass per unit area of textile woven fabrics

ISO 6330.2012 Home washing and drying procedures for textile testing

ISO 7211-2 Textile woven fabric structure analysis method Part 2.Determination of the number of yarns per unit length