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**Quality classification of consumer products - Household  
electrical appliances - Ironing appliances**

消费品质量分级 家用电器 熨烫器具

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### Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents". Drafting.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

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

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

This document was drafted by: Weikai Testing Technology Co., Ltd., Guangdong Midea Environmental Appliances Manufacturing Co., Ltd., and Ningbo Kaibo Group Co., Ltd.

Company, China Electric Power Research Institute Co., Ltd., Xiaomi Communications Technology Co., Ltd., Qingdao Haier Smart Home Appliances Co., Ltd., Ningbo Aijia Electric Appliances Co., Ltd., Fansonni (China) Investment Co., Ltd., Yueli Group Co., Ltd., Zhangzhou Cankun Industrial Co., Ltd., Panasonic Wanbao (Guangzhou) Electric Iron Co., Ltd., Zhuoli Electric Appliance Group Co., Ltd., Ningbo Shuaiwei Electric Appliance Co., Ltd., Ningbo Xinle Household Electric Appliances Co., Ltd.

The company, Jiaxing Weikai Testing Technology Co., Ltd., China Household Electric Appliance Research Institute (Beijing) Testing and Certification Co., Ltd., Ningbo Xingding Electric Appliance Co., Ltd., and Jianyige.

Er Electric Co., Ltd., Wenzhou Tiangang Trading Co., Ltd.

The main drafters of this document are: Jian Pengfei, Wei Lai, Zhang Dixuan, Chen Cankun, Gao Yuan, Du Yilin, Zheng Yanxiong, Ye Dongdong, Ma Dengliang, and Cai Ruifeng.

Xu Runlong, Xu Yangfei, Zhang Jianwei, Qiu Shanguo, Wu Min, Guan Yang, Hu Yingying, Zhao Nannan, Lin Yong, Liu Siyuan, Wang Zemei, Yu Guoming.

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## 1 Scope

This document defines the terminology and definitions for ironing appliances, specifies quality indicators and indicator levels, and describes the test methods and grading labels. method.

This document applies to the assessment of the quality grading of ironing appliances.

Note. Examples of appliances that fall within the scope of this document are.

- Electric iron;
- Steam garment steamer.

## 2 Normative references

GB/T 18799-2020

GB/T 44164-2024

GB 44246

GB 44498

GB/T 45353-2025

### 3 Terms and Definitions

The following terms and definitions apply to this document.

#### 3.1 electric iron

A portable appliance with an electrically heated soleplate for ironing fabrics.

[Source. GB/T 18799-2020, 3.1]

#### 3.2 Garment Steamer

An appliance that uses electricity to generate steam from an ironless sole plate and applies it directly to the surface of a suspended fabric to remove wrinkles.

#### 3.3 quality grading

The process of classifying product quality through scientific evaluation and clearly disclosing product quality information.

[Source. GB/T 44164-2024, 3.3]

### 4 Basic Requirements

4.1 Basic safety requirements shall comply with the provisions of GB 44246, GB 44498 and relevant mandatory standards.

4.2 Ironing appliances shall comply with the provisions of the national or industry standards that are expressly implemented.

4.3 Product quality should be divided into 3 levels, with the highest level of quality grade being AAAAA, followed by AAAA and AAA.

#### 5.1.1 Classification of base plate smoothness grades

The smoothness grade of the base plate is classified according to Table 1.

Table 1. Smoothness of the base plate Grade AAAAA AAAA AAA Base plate smoothness  
Ssp/N Ssp≤2.0 2.0< Ssp≤2.5 2.5< Ssp

#### 5.1.2 Classification of Scratch Resistance Grades for Base Plates

The scratch resistance rating of the base plate is classified according to Table 2.

Table 2 Scratch Resistance of Base Plate Grade AAAAA AAAA AAA Scratch resistance of the base plate (Rsp/mm). Rsp≤0.15 0.15< Rsp≤0.30 0.30< Rsp

### 5.1.3 Classification of Temperature Distribution Levels

The maximum absolute value of the temperature difference in the test results of 6.2.3 is selected for graded evaluation.

Temperature distribution levels are classified according to Table 3.

Table 3 Temperature Distribution Grade AAAAA AAAAA AAA Temperature distribution Td/K  
Td≤12 12< Td≤16 16< Td≤20

### 5.1.4 Classification of Temperature Regulation Stability Levels

The temperature regulation stability level is classified according to Table 4.

Table 4 Temperature regulation stability Grade AAAAA AAAAA AAA Temperature stability (St). St≤3% 3%< St≤6% 6%< St≤10%

### 5.1.5 Evaporation Rate Classification

The evaporation rate classification is specified in Table 5.

This rating does not apply to dry irons and cordless irons. Table 5 Evaporation Rate Grade AAAAA AAAAA AAA Evaporation rate SR/(g/min) 30≤SR 20≤SR< 30 12≤SR< 20

### 5.1.6 Classification of Evaporation Rate Decrease Rate

The classification of evaporation rate attenuation rate levels is specified in Table 6.

This rating does not apply to dry irons and cordless irons.

Table 6 Evaporation Rate Decrease Rate Grade AAAAA AAAAA AAA Evaporation rate decay rate Rd. Rd≤15% 15%< Rd≤30% 30%< Rd≤40%

### 5.2.1 Classification of Steam Quantity Levels

Steam volume classification is specified in Table 7. Table 7 Steam Quantity Grade AAAAA AAAAA AAA Steam output (w/(g/min)) of a steam garment steamer with a pump. 18≤W, 12≤W< 18, W< 12 Steam output (w/(g/min)) of a garment steamer without a pump. 40≤W, 25≤W< 40, W< 25

### 5.2.2 Classification of Wrinkle Removal Rate

The wrinkle removal rate is classified according to Table 8. Table 8 Wrinkle Removal Rate Grade AAAAA AAAAA AAA Wrinkle removal rate lambda. 94%≤lambda, 92%≤lambda< 94%, 90%≤lambda< 92%

### 5.2.3 Classification of Steam Volume Decrease Rate Levels