

ICS 97.180  
CCS Y62



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

**GB/T 21551.7-2025**

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**Antimicrobial and cleaning function of household and similar  
electrical appliances - Part 7: Particular requirements for  
electrical toilet**

家用和类似用途电器的抗菌、除菌、净化功能 第7部分：电坐便器便座的特殊要求

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**Issued on: August 1, 2025**

**Implemented on: January 1, 2027**

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**Issued by: State Administration for Market Regulation;  
Standardization Administration of China**

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### Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. This document is Part 7 of GB/T 21551 "Antibacterial, sterilization and purification functions of household and similar electrical appliances". The following parts have been published.

2. Particular requirements for antimicrobial materials;

3. Particular requirements for air purifiers;

4. Particular requirements for refrigerators;

5. Particular requirements for washing machines;

6. Particular requirements for air conditioners;

7. Particular requirements for electric toilet seats. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed by the China Light Industry Federation. This document is under the jurisdiction of the National Technical Committee for Standardization of Household Electrical Appliances (SAC/TC46). This document was drafted by: China Household Electrical Appliances Research Institute, Foshan Shunde Apollo Environmental Protection Equipment Co., Ltd., Jomoo Kitchen & Bathroom Co., Ltd. Co., Ltd., TOTO (China) Co., Ltd., Xiamen Ruierte Sanitary Ware Technology Co., Ltd., China Home Furnishing Research Institute (Beijing) Testing and Certification Co., Ltd., Taizhou Product Quality and Safety Testing Institute, Zhejiang Yihe Sanitary Ware Co., Ltd., Panasonic Home Technology (Hangzhou) Co., Ltd., Hengjie

Sanitary Ware Group Co., Ltd., Longyou Xierkang Smart Home Technology Co., Ltd., China Quality Inspection and Testing Science Research Institute, Guangdong Huamei Junda Electric Appliance Co., Ltd. Xiamen Jianlin Healthy Home Furnishing Co., Ltd., Quanzhou Kemu Intelligent Kitchen and Bathroom Co., Ltd., Qingdao Haier Intelligent Technology R&D Co., Ltd., Institute of Microbiology, Guangdong Academy of Sciences (Guangdong Microbiological Analysis and Testing Center), Jiahe (Zhejiang) Inspection and Testing Co., Ltd., Anhui Zhongrenbei Jia Technology Co., Ltd., MANN+HUMMEL Management (Shanghai) Co., Ltd., Nanjing Customs Textile Industry Product Testing Center, Anhui Provincial Product Quality Supervision and Inspection Institute, Foshan Quality Metrology Supervision and Inspection Center, and Weike Testing Technology Co., Ltd. The main drafters of this document are. Zhang Xiao, Zhu Jixing, Li Shanshan, Chen Liangquan, Li Yi, Liu Chuan, Wang Bing, Jiao Xiaolan, Xiang Jingcheng, Tang Wu, Liu Xiang, Peng Zhiqiu, Wu Xishan, Zhang Qingling, Liu Wei, Peng Qiong, Liu Zhongnan, Lin Shan, Chen Fei, Xie Xiaobao, Wu Bing, Huang Shiwen, Shao Leilei, Dong Lei, Ou Zhuokun, Xu Yanjun.

GB/T 21551 "Antibacterial, sterilization and purification functions of household and similar electrical appliances" series of standards are divided into several parts, including general requirements and Special requirements consist of the following parts. Part 1 is general requirements and the rest are special requirements. For products covered by the special requirements, the requirements are as follows: According to the relevant provisions of special requirements. GB/T 21551 plans to publish the following parts.

- 1.General. The purpose is to specify the general requirements and test methods for the antibacterial, sterilization and purification functions of household and similar electrical appliances. Test method.
- 2.Special requirements for antimicrobial materials. The purpose is to specify the antimicrobial properties of materials and components used in household and similar electrical appliances. Basic performance parameters and test methods for antibacterial, anti-mildew, anti-allergen and anti-viral.
- 3.Particular requirements for air purifiers. The purpose is to specify the antibacterial, anti-mildew, Basic performance parameters and test methods for anti-allergen, antiviral, sterilization, allergen removal, virus removal and odor removal.
- 4.Particular requirements for refrigerators. The purpose is to specify the antibacterial, anti-mildew, sterilization, and cleaning properties of refrigerators for household and similar purposes. Basic performance parameters and test methods of deodorization/odor removal.
- 5.Particular requirements for washing machines. The purpose is to specify the antibacterial, anti-mildew, sterilization and decontamination of washing machines for household and similar purposes. Basic performance parameters and test methods for mite, allergen, virus and odor removal.

## 1 Scope

GB/T 21551.7-2025 is the Chinese national standard on antimicrobial and cleaning function of household and similar electrical appliances - part 7: particular requirements for electrical toilet, in the field of domestic and commercial equipment, entertainment, sport. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 1 August 2025 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 January 2027. Classification: ICS 97.180, CCS Y62. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the hygienic safety and functional requirements of electric toilet seats for household and similar purposes with antibacterial, sterilization and purification functions. requirements, markings and instructions for use, and describes the corresponding test methods. This document applies to household and similar electrical appliances with one or more functions of antibacterial, anti-mildew, anti-virus, sterilization, de-virus, and deodorization. Research and development, production, sales and inspection of toilet seats (hereinafter referred to as "toilets"). This document does not apply to electric toilets intended for medical purposes.

## 2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB 5749 Sanitary Standard for Drinking Water

GB/T 8170 Rules for rounding off values and expression and determination of limit values

GB 19489 General requirements for laboratory biosafety

GB/T 20290 Performance test methods for household electric dishwashers

GB/T 21551.1 Antibacterial, sterilization and purification functions of household and similar electrical appliances Part

## 3 Terms and Definitions

The terms and definitions defined in GB/T 21551.1 and GB/T 23131 apply to this document.

#### **4.1 Hygiene and safety requirements**

4.1.1 Complete Machine The harmful substances produced by the toilet itself should comply with the requirements of Table 1.

### **5 Particular requirements for washing machines**

GB/T 23131 Electric toilet seats for household and similar purposes

GB 44498 Health Technical Specification for Household and Similar Electrical Appliances

HJ865 Technical Specifications for the Construction of Odor Olfactory Laboratory

HJ1262 Determination of odor in ambient air and exhaust gas - Three-point comparison odor bag method  
QB/T 5364 Technical requirements and evaluation methods for test chambers for air purifier testing