

ICS 13.120



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

GB/T 4706.53-2024

**Safety of household and similar electrical appliances - Part 53:
Particular requirements for toilet appliances**

家用和类似用途电器的安全 第53部分：坐便器的特殊要求

(English Translation)

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Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020

Directives for standardization - Part 1.Rules for the structure and drafting of standardizing documents.

This document is Part 53 of GB/T 4706 Safety of household and similar electrical appliances. GB/T 4706 has been published in the following parts.

-- Part 1.General requirements;

-- Part 2.Particular requirements for electric irons;

...

-- Part 121.Particular requirements for professional ice-cream makers.

This document replaces GB 4706.53-2008 Household and similar electrical appliances

- Safety - Particular requirements for toilets. Compared with GB 4706.53-2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

-- The scope of the application is changed. The original "shower unit" is changed to "spray seat" in the entire text (see Chapter 1; see Chapter 1 of the 2008 edition);

-- The definition of "spray seat" is added (see 3.105);

-- The requirements for the test sequence are added (see 5.2 and 5.3);

-- The requirements for the type of appliances for spray seats are added (see 6.1);

-- The waterproof grade requirements for spray seats are added (see 6.2);

-- The requirements for the force applied to the appliances in the mechanical strength test are changed (see 21.101; see 21.101 of the 2008 edition);

- The requirements for the mechanical strength of spray seats, heated seats, enclosures, etc. are added (see 21.103);
- The structural requirements for bare heating elements of appliances are added (see 22.33);
- The structural requirements for "thermal link for compliance with 19.13 and thermal cut-out in the spray seat" are added (see 24.101);
- The requirements and test methods for the rust resistance of toilets to cleaners and urine are added (see 31.101).

This document is identical to IEC 60335-2-84.2019 Household and similar electrical appliances - Safety - Part 2-84.Particular requirements for toilet appliances.

The following minimal editorial changes are made to this document.

- The name of the standard is changed to "Safety of household and similar electrical appliances - Part 53.Particular requirements for toilet appliances" to enhance the coordination of the standard system.

1 Scope

This chapter of GB/T 4706.1-2024 is replaced by the following.

This document specifies the safety of household and similar electric toilet appliances.

This document applies to household and similar electric toilet appliances having a rated voltage being not more than 250 V, in which excrement is stored, dried or destructed or which wash or dry parts of the human body.

2 Normative references

This chapter of GB/T 4706.1-2024 is applicable except as follows.

Addition.

IEC 60068-2-52.1996, Environmental testing - Part 2-52.Tests - Test Kb. Salt mist, cyclic (sodium chloride solution)

3 Terms and definitions

This chapter of GB/T 4706.1-2024 is applicable except as follows.

For freezing toilets, 0.3 L of water having a temperature of 37 °C is added each cycle, controls being adjusted to the lowest temperature. They are also operated without water. Spray seats are supplied with water at the most unfavourable pressure that provides an effective spray.

4 General requirement

This chapter of GB/T 4706.1-2024 is applicable.

5 General conditions for the tests

This chapter of GB/T 4706.1-2024 is applicable except as follows.

The temperature of the water used for the tests is 15 °C±5 °C.

6 Classification

This chapter of GB/T 4706.1-2024 is applicable except as follows.

Appliances incorporating water heaters having bare heating elements shall be class I or class III.

Toilets, spray seats and heated seats shall be at least IPX4.

7 Test steps

This chapter of GB/T 4706.1-2024 is applicable except as follows.

The installation instructions for class 0I appliances and class I appliances shall state that they have to be earthed.

The installation instructions for appliances incorporating water heaters having bare heating elements shall state the substance of the following.

The label may be fixed on the appliance if it is visible before using the toilet.

Compliance is checked by inspection.