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

GB/T 4706.34-2024

Replacing GB 4706.34-2008

**Safety of household and similar electrical appliances - Part 34:
Particular requirements for commercial electric forced
convection ovens, steam cookers and steam-convection ovens**

家用和类似用途电器的安全 第34部分：商用电强制对流烤炉、蒸汽炊具和蒸汽对流炉的特殊要求

(English Translation)

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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 34 of GB/T 4706 "Safety of Household and Similar Electrical Appliances". GB/T 4706 has been published as follows part.

- Part 1: General requirements;
- Part 2: Particular requirements for electric irons;
- Part 121: Particular requirements for professional ice cream machines.

This document replaces GB 4706.34-2008 "Safety of commercial electric forced convection ovens, steam cookers and Compared with GB 4706.34-2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Changed the scope of Chapter 1 and added content related to equipment used on ships (see Chapter 1, Chapter 1 of the 2008 edition);
- Added the terms and definitions of "functional surface" and "adjacent surface" (see 3.110, 3.111);
- Added requirements for the waterproof level of appliances and other appliances used on the desktop (see 6.2);
- Added the content that should be marked on the equipment, such as. indicating the rated pressure of the pressure-bearing parts, and for the easily accessible external surfaces, the equipment should be marked with Symbol 5041 (2002-10) specified in IEC 60417 or marked with warning content (see 7.1);
- Added the symbol requirements for high temperature surface warning (see 7.6);
- Added the requirement that the height of the triangle used in symbol 5041 (2002-10)

specified in IEC 60417 should not be less than 15 mm Request (see 7.14);

--- Added the requirement that the markings on external accessible surfaces should be visible when the appliance is in normal operation, and the requirement that the markings on fixed appliances should be visible when the appliance is in normal operation, and the information given is specified in the requirements (see 7.15);

--- Added the maximum food loading capacity that should be clearly stated in the instructions and the warning content that should be included in the instructions (see 7.12);

--- Added requirements for measuring temperature rise on external accessible surfaces (see 11.3);

--- Changed the provisions for appliances under different working conditions (see 11.7, 11.7 of the 2008 edition);

--- Added the maximum temperature rise value of the external accessible surface specified under normal working conditions (see 11.8, Table 101);

--- Changed the allowable value of leakage current for class I stationary appliances and the allowable value of leakage current for class I portable appliances (see 13.2, 13.2 of the 2008 edition);

--- After adding the "withstand spilled liquid" test, if there is doubt about the test results and the test is repeated, the rinse agent composition to be used (see 15.2, Table 102);

--- Added requirements for mechanical properties of carbon steel and alloy steel fasteners and corrosion-resistant stainless steel fasteners (see 28.1, 28.4);

--- Changed the allowable value of leakage current for class I stationary appliances and the allowable value of leakage current for class I portable appliances (see 16.2, 16.2 of the 2008 edition);

--- Added requirements for moving parts of related appliances. They are not applicable to parts necessary for performing tilting operations.

The compliance of the test probe No. 41 in GB/T 16842-2008 is checked by applying a force of 10N (see 20.2);

--- Changed the connection requirements between the power supply and the wiring terminals under different conditions (see 25.3, 25.3 of the 2008 edition);

--- Changed the provisions for the type of power cord used (see 25.7, 25.7 of the 2008 edition);

--- Changed the temperature requirements for the glow-wire test (see 30.2.1, 30.2.1 of the 2008 edition);

--- Added the compliance requirements for screws made of carbon steel, alloy steel and

stainless steel (see 28.1);

---Added screws for mechanical and electrical connections and screws for mechanical connections and grounding continuity to keep the minimum the requirements for contact pressure and the assembly torques for threaded connections to provide earthing continuity are given (see 28.4);

--- Added Table 102 "Rinse agent composition" and Table 103 "Assembly torque of threaded connections providing ground continuity" (see Table 102, Table 103);

--- Added Figure 102 "Warning sign to prevent scalding hazard", Figure 103 "Identification of temperature measurement surface", Figure 104 "Measurement surface temperature" Probe for measuring degrees" and Figure 105 "Adjacent surfaces not to be measured" (see Figures 102, 103, 104 and 105);

--- Added Appendix P "Guidelines for the application of appliances used in tropical climates" (see Appendix P);

--- Added Appendix AA "Apparatus used on ships" (see Appendix AA);

--- Increased the mechanical strength and rust resistance requirements for equipment used on ships (see 21.AA.102, 21.AA.101,

This document is equivalent to IEC 60335-2-42:2017 "Household and similar electrical appliances - Safety - Part 2-42.Commercial electrical force Particular requirements for convection ovens, steam cookers and steam convection ovens.

The following minimal editorial changes were made to this document.

--- The name of the standard was changed to "Safety of Household and Similar Electrical Appliances Part 34: Commercial Electric Forced Convection Ovens, Steam Cookers and Steamers Special Requirements for Steam Convection Ovens" to enhance the coordination of the standard system;

--- Add the table number and title to the table below 15.2 of IEC 60335-2-42:2017, and change Table 102 to Table 103;

---Correct "IEC 60584-1" in the reference number description B of Figure 104 of IEC 60335-2-42:2017 to "IEC 60584-1.

2013";

--- Correct "6.3" in Appendix N of IEC 60335-2-42:2017 to "10.1".