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

GB/T 4706.22-2024

Replacing GB 4706.22-2008

**Safety of household and similar electrical appliances - Part 22:
Particular requirements for stationary cooking ranges, hobs,
ovens and similar appliances**

家用和类似用途电器的安全 第22部分：驻立式烤箱灶、灶台、烤箱及类似用途器具的特殊要求

(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 22 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 4706.22-2008 "Safety of household and similar electrical appliances - Stationary electric ranges, cookers, ovens and similar appliances" Compared with GB 4706.22-2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Added the normal working status of concave electromagnetic cooktop and steam convection oven (see 3.1.9.101, 3.1.9.102);
- Changed the terminology (see 3.104, 3.106, 3.104, 3.106 of the 2008 edition);
- Added "Steam Convection Oven", "Normal Pressure Steamer", "Pressure Steamer", "Concave Induction Cooker Head", "Rated Cooking Pressure", and "Pressure Regulator" Terms and definitions for "pressure relief device", "weather deck", "lounge" and "flexible induction cooking area" (see 3.106.1, 3.106.2, 3.106.3, 3.113, 3.119, 3.120, 3.121, 3.122, 3.123 and 3.124);
- Added test conditions for steam convection oven (see 5.102);
- Added the waterproof grade requirements for ovens used on open decks (see 6.2);
- Added graphic symbols (see 7.6);
- Added requirements for marking of flexible electromagnetic cooking zone switches and similar devices (see 7.9);
- Added the requirements for instructions for use (see 7.12);

- Changed the marking requirements for free-standing appliances other than fixed appliances (see 7.15, see 7.15 of the 2008 edition);
- Added marking and instructions for ovens used on the floor (see 7.103);
- Added the description of the duty cycle of the appliance input power and current (see Chapter 10);
- Added test tools and methods for measuring temperature rise on flat surfaces (see 11.3);
- Added test methods for concave induction cooktops and ovens (see 11.4);
- Added the test description of the surface temperature rise of pyrolytic self-cleaning ovens, pressure steamers and atmospheric steamers (see 11.101);
- Changed the leakage current test method and limit requirements at working temperature (see 13.2, see 13.2 of the 2008 edition);
- Added overflow test for cookers and built-in ovens with controls under the countertop (see 15.2);
- Added the test conditions for concave electromagnetic cooktops as electric appliances (see 16.1);
- Added abnormal working test of concave electromagnetic cooker head (see 19.1, 19.102 and 19.103);
- Added abnormal working test of pressure steamer (see 19.4, 19.13);
- Added test methods for appliances equipped with a disk detector (see 19.11.4);
- Added stability test for oven stoves (see 20.102);
- Added mechanical strength test for concave electromagnetic cooker head (see 21.102);
- Added structural requirements and test methods for pressure steamers, cookers and stoves (see 22.7, 22.102 and 22.133);
- Added remote control requirements (see 22.40, 22.51);
- Added structural requirements for steamers and pressure steamers (see 22.104 and 22.125~22.132);
- Added structural requirements and test methods for electromagnetic cookers and concave electromagnetic cookers (see 22.115);
- Added requirements and test methods for the external glass panels of oven doors and the glass on the hinged covers of cooktops (see 22.120);
- Added structural requirements for removable shelves in ovens (see 22.122);

- Added structural requirements for multi-burner appliances controlled by electronic circuits (see 22.123, 22.124, 22.134 and 22.138);
- Added structural requirements for ovens intended for use on ships (see 22.135, 22.136 and 22.137);
- Added anti-rust requirements for ovens intended for use on ships (see Chapter 31);
- Added the test conditions for pyrolytic self-cleaning oven electronic circuits (see 32.101);
- Add the layout of the working surface for the overflow test of the embedded oven (see Figure 105);
- Added the solution bottle overflow test layout and solution bottle schematic diagram (see Figures 106, 107 and 108);
- Add relevant content of software evaluation (see Appendix R).

This document is equivalent to IEC 60335-2-6:2018 "Safety of Household and Similar Electrical Appliances Part 2-6.Stationary Ovens, Particular requirements for cookers, ovens and similar appliances.

The following minimal editorial changes were made to this document.

- The name of the standard is changed to "Safety of Household and Similar Electrical Appliances Part 22: Stationary Ovens, Cooktops, Ovens and Similar Appliances Special requirements for appliances for general use" to enhance the coordination of the standard system.

Introduction

GB/T 4706 "Safety of Household and Similar Electrical Appliances" adopts most of IEC 60335. On this basis, GB/T 4706 refers to the structure of IEC 60335 is divided into several parts, consisting of general requirements and special requirements. Part 1 is general requirements, and the other parts are for products covered by special requirements, their safety requirements are general requirements used in combination with the special requirements.

The requirements include supplements and modifications to the corresponding clauses in the general requirements to provide complete requirements for each product.

This document is the protection requirements for electrical, mechanical, thermal, fire and radiation risks when the appliance is used normally in accordance with the instructions.

This document also covers abnormal conditions that may occur during use and considers how electromagnetic interference may affect the safe operation of the equipment.

This document has taken into account the requirements specified in GB/T 16895 "Low Voltage Electrical Installations". The appliance is connected to the power supply in