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

GB 45833-2025

**General safety technical requirements of electricity use for
gas-burning appliance**

燃气燃烧器具用电安全通用技术要求

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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 is required. 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 is proposed and coordinated by the Ministry of Housing and Urban-Rural Development of the People's Republic of China. General technical requirements for electrical safety of gas burning appliances

1 Scope

GB 45833-2025 is the Chinese national standard on general safety technical requirements of electricity use for gas-burning appliance, in the field of construction materials and building. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 30 May 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 June 2026. Classification: ICS 91.140, CCS P45. 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 classification, electrical structure and materials, electrical performance, electromagnetic Compatible with safety, remote operation, electrical related information and other requirements, and describes the corresponding test methods. This document applies to burning appliances with a rated voltage not exceeding 250 V as specified in GB 16914. This document does not apply to burning appliances that use

three-phase AC power, burning appliances that use only batteries, and burning appliances that use only electrical energy to achieve their functions. The integrated parts of the use function (such as the electric oven in the integrated stove, the electromagnetic cooker in the gas-electric dual-purpose stove, etc.); Burning appliances designed for industrial purposes, and burning appliances used in special environments (such as corrosive gas environments, etc.).

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/T 4208 Enclosure protection degree (IP code)

GB/T 4706.1 Safety of Household and Similar Electrical Appliances Part

3 Standard loose-leaf and gauges

GB/T 17626.2 Electromagnetic compatibility test and measurement technology
Electrostatic discharge immunity test

GB/T 17626.4 Electromagnetic compatibility test and measurement technology Electrical
fast transient pulse group immunity test

GB/T 17626.5 Electromagnetic compatibility test and measurement technology Surge
(impact) immunity test

GB/T 17626.6 Electromagnetic compatibility test and measurement technology - Immunity
to conducted disturbances induced by radio frequency fields

GB/T 17626.11 Electromagnetic compatibility test and measurement technology Part

11.For each phase input current less than or equal to 16 A Voltage dips, short interruptions
and voltage variations immunity test for equipment

GB/T 18802.11 Low voltage surge protective device (SPD) Part

11.Performance requirements and specifications of surge protective devices for low voltage
power supply systems Test methods

GB/T 30597 General requirements for safety and control devices for gas burners and
combustion appliances

GB 35848 Commercial gas burning appliances

GB/T 38603 Particular requirements for safety and control devices for gas burners and combustion appliances Electronic controllers

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