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HJ

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

HJ 311-2017

Replacing HJ/T 311-2006

**Technical requirement for environmental labeling products. Gas
cooking appliances
(English Translation)**

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Table of Contents

Foreword	
1 Scope of application	.1
2 Normative references	.1
3 Terms and definitions	.1
4 Basic requirements	.1
5 Technical Contents	.2
6 Test methods	.3

Foreword

In order to implement the "Law of the People's Republic of China on Environmental Protection" to reduce the environmental and human health of gas stoves in the process of production and use Influence, develop this standard.

This standard on the gas cooker product design and production, product use, packaging and description of the proposed environmental protection requirements.

This standard on the "technical requirements of environmental labeling products gas stove" (HJ/T 311-2006) was revised, the main changes are as follows.

- adjust the scope of application;
- Added definition of the term gas cooker;
- Increased product environment design requirements;
- Increase the requirements of the production process;
- Adjust NO_x, CO, thermal efficiency requirements;
- Added noise limit requirements;
- increased packaging requirements;
- Added product public information requirements.

This standard is formulated by the Ministry of Environmental Protection Science and Technology Standards Division.

This standard is mainly drafted by. Environmental Protection Department of Environmental Development Center.

This standard MEP approved on December 11, this standard since March 1, 2018 into

effect.

This standard is interpreted by the MEP.

This standard replaces the standards previously issued as follows.

- HJ/T 311-2006, HJ BZ 19-1997.

Environmental labeling products technical requirements gas cooker

1 Scope of application

This standard specifies the terms and definitions, basic requirements, technical content and test methods of environmental labeling products of gas cooker.

This standard applies to the use of urban gas, GB 16410 "household gas cooker," defined household gas cooker, GB 30531 "business Gas stove with energy efficiency limit value and energy efficiency rating" defined commercial gas cooker; use GB/T 13611 "town gas classification and basic Characteristics" gas type outside the gas cooker can refer to the use of this standard.

This standard does not apply to mobile gas transport in the use of gas stove.

2 Normative references

This standard references the following documents in the terms. For undated references, the effective version applies to this standard.

GB 16410 household gas cooker GB 30531 commercial gas cooker energy efficiency limit value and energy efficiency rating GB 30720 domestic gas stove energy efficiency limit value and energy efficiency rating GB/T 13611 urban gas classification and basic characteristics GB/T 16288 plastic products logo GB/T 18455 packaging recycling mark GB/T 26572 electrical and electronic products limit the requirements of substances CJ/T 28 Chinese gas cooking stove CJ/T 187 gas steam box CJ/T 392 cooking gas cookers HJ 2537 Environmental Labeling Product Technical Requirements Water-based paint HJ 2541 Environmental Labeling Product Technical Requirements Adhesives HJ/T 296 environmental labeling products technical requirements sanitary ceramics

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1 Gas cooker gas cooking appliances

Cooking utensils with gas burners.

[GB 16410-2007, Definition 3.1]

4 Basic requirements

4.1

products should meet the corresponding quality, safety standards.

4.2

The pollutant discharge of the production enterprise shall comply with the discharge standards of pollutants stipulated by the state or local governments.

4.3

product manufacturers in the production process should strengthen cleaner production.

5.1.1 Easy to recycle design

5.1.1.1

product components, materials, recycling rate should not be less than 75% of the average quality of electrical appliances.

5.1.1.2

Plastic parts with a mass greater than 25 g or with a surface area of more than 200 mm² shall be marked in accordance with the requirements of GB/T 16288.

5.1.2 Parts of the harmful substances requirements

5.1.2.1

Short-chain chlorinated paraffins (SCCPs) in plastic parts shall not exceed 0.1% of the total plastic parts.

5.1.2.2

Enclosures, In addition to the immediate vicinity of heated plastic parts, the quality of more than 25g plastic parts do not use polybrominated biphenyls, Polybrominated diphenyl ethers, hexabromocyclododecane.

5.1.3 Adhesives used in the product shall comply with the requirements of HJ 2541.

5.1.4 The paint used in the product shall comply with the requirements of HJ 2537.

5.1.5 The internal and external irradiation index of the stone used in the product shall meet the requirements of HJ/T 296.

5.2 Product production process requirements

5.2.1

Do not use hydrofluorocarbons (HFCs), 1,1,1-trichloroethane (C₂H₃Cl₃), dichloroethane

(CH₃CHCl₂), trichloroethane (C₂HCl₃), carbon tetrachloride (CCl₄), trichloromethane (CHCl₃), dichloromethane (CH₂Cl₂), n-hexane (C₆H₁₄) Bromopropane (C₃H₇Br), toluene (C₇H₈) and xylene (C₆H₄ (CH₃)₂) were used as cleaning solvents.

5.2.2

parts assembly, the connection process should be used lead-free soldering process.

5.3 Product Requirements

5.3.1

The use of different gas cooker, under rated heat load conditions, the dry flue gas NO_x volume fraction ($\alpha = 1$), should comply with Table 1 begging.

Table 1 dry flue gas NO_x volume fraction

Project artificial gas, natural gas liquefied petroleum gas NO_x ($\alpha = 1$)/10⁻⁶ ≤ 60 ≤ 70

5.3.2

Using different gas cooktops, the CO volume fraction ($\alpha = 1$) in dry flue gas shall not be greater than 300 × 10⁻⁶ at rated heat load.

5.3.3

The thermal efficiency of the product should be consistent with the requirements of GB 30720 or GB 30531 energy-saving rating.

5.3.4

Product combustion noise should meet the requirements of Table 2.

Table 2 gas cooker noise

Type Combustion noise (sound pressure level), dB (A) Extinction noise (sound pressure level), dB (A) Household gas cooker ≤ 60 ≤ 70 Commercial gas cooker ≤ 60 ≤ 80

5.3.5 Product harmful substances requirements

Lead, cadmium, mercury, chromium (Cr₆), polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) the content of six kinds of harmful substances should meet the requirements of GB/T 26572 standards.

5.4 Product packaging requirements

5.4.1

No hydrochlorofluorocarbons (HCFCs) are used as blowing agents.