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

GB 16691-2008

Replacing GB 16691-1996; GB 16692-1996

**Portable butane cookers and gas cylinders
(English Translation)**

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Foreword

The volume concentration of carbon monoxide in standard 5.1.1.1, 5.1.1.2, 5.1.1.4, 5.1.1.5 in the bottom of the cylinder surface temperature, 5.1. 1.7

5.1.2.1.12, 5.1.2.1.13, 5.1.2.1.16, 5.1.2.1.23, 5.1.2.1.24, 6.2.1 table 4 a, B, G, H, 6.2.3, 6.3.5.2, 6.3.5.3, 6.3.5.6, 6.6 are mandatory, others are recommended.

The revised standard Japanese standard JISS2147-1998 "portable LPG stoves" and JISS2148-1998 "portable stove with Cylinders. " this standard compared with JISS2147-1998 and JISS2148-1998, structural differences see Appendix A.

This standard compared with JISS2147-1998 and JISS2148-1998, the main technical

differences are as follows.

- Carbon monoxide concentration index volume portable butane stove flue gas tightened;
- Gas consumption increased accuracy requirements, performance requirements flameout protection device;
- The pressure inside the cylinder test, to measure the cylinder temperature;
- Revised regulator and temperature durability test project content;
- Portable stove butane gas cylinders in size increases the volume requirements of the cylinder, in order to improve security;
- Increased inspection rules a chapter, the chapter is based on our current standard GB/T 2828.1 requirements and taking into account the special nature of the product it is prepared.

This standard replaces GB 16691-1996 "portable butane gas stoves" and GB 16692-1996 "portable stove butane gas cylinders." this standard compared with GB 16691-1996 and GB 16692-1996, the main changes are as follows.

- Expansion formula for calculating the concentration of carbon monoxide gas in volume;
- Increased flameout protection device performance requirements;
- Increased to prevent misuse of the cylinders when the installation and testing of content;
- The pressure inside the cylinder test, to measure the cylinder temperature;
- Improving the thermal efficiency of relaxed concentration of carbon monoxide gas in volume requirements;
- Revised regulator and temperature durability test project content;
- Tightened the maximum stroke size and initial injection stroke size requirements.

Appendix A of this standard is an informative annex, Annex B normative appendix.

The standard proposed by the Ministry of Housing and Urban-Rural Development of the People's Republic of China.

This standard is under the jurisdiction of the Ministry of Construction of city gas standard technical focal North China Municipal Engineering Design and Research Institute.

This standard was drafted. North China Municipal Engineering Design and Research Institute, the national gas appliances Quality Supervision and Inspection Center, with Iwatani gas (Pearl Shanghai) Co., Ltd., Nantong burning industrial manufacturing.

1 Scope

This standard specifies a portable butane gas stove (hereinafter referred to as portable stoves) and a portable stove butane gas cylinders (hereinafter referred to as cylinders) requirements, test Test methods, inspection rules, marking, packaging, transportation and storage.

This standard applies to portable butane stoves and portable stoves using butane gas filling, disposable cylinders.

Other purposes (such as gas lights, gas welding, etc.) of cylinders, when the connection size can meet the requirements for implementation.

2 Normative references

The following documents contain provisions which, through the application of this standard and become the standard terms. For cited documents with dates, followed by its There are amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1740 Determination of resistance to wet heat GB/T 1765 Determination of resistance to humidity, salt spray, weather resistance (artificial acceleration) Preparation of the film Determination of GB/T 1771 Paints and varnishes resistance to neutral salt spray GB/T 2520 tin plated cold-rolled steel sheet GB/T 2828.1 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch inspection sampling plan GB/T 2903 copper - copper-nickel (constantan) thermocouple wire GB/T 3768 Determination of sound pressure of sound power levels of noise sources using an enveloping surface reflectance measuring surface Simple Method GB/T 3772 platinum and rhodium 10 - platinum thermocouple wire GB 9052.1 LPG gas fields GB/T 9251 Test methods for hydraulic cylinders GB/T 10410.3 liquefied petroleum gas composition by gas chromatography QB/T 3826 light industrial products metal coating and corrosion test methods for neutral salt spray test chemical treatment layer (NSS) method Evaluation QB/T 3832 light industrial products metal coating corrosion test results YY1001.1 glass syringes - Part 1. all-glass syringes

3 Terms and Definitions

The following terms and definitions apply to this standard.

Quality portable butane gas stoves consumed per unit of time.

Design requirements of portable stove gas consumption.

When the cylinder pressure reaches a certain value will automatically disengage cylinder and stove body or close the air passage means.

The whole process of working cylinders loaded state of the portable stove.

Quality butane gas load design requirements, but also the amount of filling gas cylinders identified.

4.1 Code

- a) BDZ --- portable butane gas stoves;
- b) BDP --- portable stove butane gas cylinders.

Methodology 4.2 models Product Name (uppercase Pinyin representation) Key Features Index (Arabic numerals no business since. Features serial number or design (Pinyin letters and/or Arabic numerals Show

4.3 Example

Example 1. "BDZ-160- xx" represent portable butane gas stoves rated air consumption of 160g/h.

Example 2. "BDP-240- xx" represent a portable stove butane gas cylinders with nominal filling capacity of 240g.

5.1.1 Performance

Portable stove performance requirements shall be in accordance with Table 1.

Table 1 portable stove performance requirements

Terms of project performance requirements, test methods 5.1.1.1 Butane gas passage Tightness Exports to the cylinder regulator Regulator to the valve (including plug valves, solenoid valves, etc.) the valve hole to fire

5.2.2.1 Does not leak

5.1.1.2

Butane gas passage

Withstand voltage

No leakage, no deformation and damage 5.2.2.2