

ICS 97.040.20

CCS P 45



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

GB 29410-2012

Domestic dimethyl ether gas cooking appliances

家用二甲醚燃气灶

Issued on: December 31, 2012

Implemented on: December 1, 2013

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine;
Standardization Administration of the PRC**

Table of Contents

1	Scope
2	Normative references
3	Terms and Definitions
4	Flame Flame uniform homogeneity
4.1	Classification
5	Requirements
5.1	The basic design parameters
5.2	Structure
5.2.1	General requirements
5.2.2	Structure Parts
5.2.3	AC power for the ignition device of the gas stove structure
5.3	Material
5.3.1	General Requirements material
5.3.2	Sealing material
5.3.3	Burner
5.4	Performance
6	Test methods
6.1	Test conditions
6.1.1	Laboratory conditions According to the provisions in
6.1.2	Test System
6.1.3	The test gas
6.1.5	Test Equipment Test equipment to perform as specified in Table 7. Table
17	Reference
20	The valve housing 3 a 50 4 electric ignition device housing a

Foreword

5.2.1.5 of this standard, section 5.2.1.8, Article 5.2.1.9, Article 5.2.2.6a), Article 5.2.2.6b), Article 5.2.2.7f) , Article 5.2.2.8c), Article 5.2.2.11a), Article 5.2.3, Article 5.3.2, section 5.3.3.1, Article 5.4.1, section 5.4.2a) , Article 5.4.2c), Article 5.4.5, Section 5.4.6, section 5.4.7.1b), Article 5.4.7.2, Section 5.4.9, section 5.4.10, Rule 8.1 [except 8.1.1f) outside], Section 8.2.1, Table 1, Table 2, Table 4, bold portions are mandatory, the rest are recommended. This standard was drafted in accordance with rules GB/T 1.1-2009 given.

Appendix A gives the standard terms to support the basic requirements GB 16914-2012 correspondence table. The standard proposed by the People's Republic of China Ministry of Housing and Urban-Rural Development. This standard by the Ministry of Housing and Urban town gas standard technical focal point. Drafted. North China Municipal Engineering Design & Research Institute, Zhongshan Vantage Gas Appliance Co., Ltd., has Jiutai Energy Technology Limited, Schindler Technology Group Co., Ltd., Zhejiang Jiangxin Tao Electronic Machinery Co., Ltd., the national gas appliances Quality Supervision and Inspection center. The main drafters. Zhang Circle, Chen Jin Rui, Yi Hongbin, Li Qi, Wu Binjiang, He Minghui, Qu Yanhong, Yan Rongsong. Household dimethyl ether gas stove

1 Scope

China's national standard for domestic cooking appliances burning dimethyl ether, the DME that is distributed as a bottled fuel in parts of the country and that attacks the elastomers and light alloys used in ordinary LPG appliances. It sets the classification and models, the requirements, the test methods, the inspection rules, and the marking, packaging, transport and storage. It applies to household DME cookers fed by the gas defined in GB 25035 whose nominal heat input per burner is not more than 5.23 kW; it does not apply to cookers used aboard moving vehicles or vessels, nor to combined gas and electric cookers. Large parts of the requirements are compulsory rather than recommended - among them the provisions on the gas circuit, the burners, the flame supervision device, the ignition, the electrical safety and the whole of the inspection rules and marking clauses, together with Tables 1, 2 and 4. The appliance must satisfy the general safety requirements for gas burning appliances of GB 16914, and an informative annex maps this standard's terms onto the basic requirements of that one. The materials clauses draw on the cable standards GB/T 5013.4 and GB/T 5023.3 and on the coated glass and ceramic panel specifications CJ/T 157 and CJ/T 305. Issued on 31 December 2012 and in force since 1 December 2013, it is a first edition, proposed by the Ministry of Housing and Urban-Rural Development.

This standard specifies the household gas stoves dimethyl ether (hereinafter referred to as gas stoves) and the classification models, requirements, test methods, inspection rules, standard Knowledge, packaging, transport and storage. This standard applies to GB 25035 DME predetermined gas source, a single burner is not greater than the nominal heat of household 5.23kW DME gas stove. This standard is not used for a gas stove in a movement of transport vehicles. This standard does not apply to gas-electric stove dual.

2 Normative references

The following documents for the application of this document is essential. For dated references, only applies to the version dated paper Pieces. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 191 Packaging Pictorial signs

GB/T 1019-2008 household and similar electrical packaging General

GB/T 5013.4 rated voltage of 450/750V rubber insulated cables and Part 4. Cords and flexible cables

GB/T 5023.3 rated voltage of 450/750V and below PVC insulated cables - Part 3. fixed wiring sheathed cable

GB/T 7306 (all parts) 55 ° pipe thread seal

GB/T 7307 55 ° non-sealing pipe thread

GB 16410-2007 domestic gas

GB/T 16411-2008 domestic gas appliances General Test Method

GB 16914-2012 Safety requirements for gas burning appliances

GB 25035 town gas with dimethyl ether CJ/T 157-2002 domestic gas with a coating glass panel CJ/T 305-2009 ceramic panel domestic gas

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Rated thermal load rated heat input Rated heat flux nominal heat flow rate At a nominal gas pressure, the reference gas appliance using heat released per unit time. [CJ/T 3085-1999, the definition 7.2.15]

4 Flame Flame uniform homogeneity

Tempering No tempering 5 6 combustion noise is no greater than 65dB (A) 7 flame noise is not greater than 85dB (A) 8 dry flue gas carbon monoxide concentration (air excess coefficient $\alpha = 1$, the volume percent) not greater than 0.05%

9 smoke no smoke

Huang Yan 10 contacts the contact electrode often not Huang Yan When using a large pot 11, combustion stability No flame, no temper

5.4.4 Temperature Rise Temperature should not exceed the value shown in Table 2. Table

2 Maximum normal temperature unit Kelvin No. rise site The hand operating portion to be in contact.

--- metallic materials and metal materials coated with a layer

--- non-metallic materials 2 battery housing

4.1 Classification

4.1.1 divided by the number stove eye. monocular lesions, eye lesions, eye lesions and more.

4.1.2 The form of the structure is divided into. desktop, embedded.

4.2 Model - - - Household stoves (JZ) DME gas (M) Custom number Example. 968 home dimethyl ether gas stove is expressed as. "JZM-968".

5.1 The basic design parameters

5.1.1 rated gas pressure gas stoves should be 2.0kPa.

5.1.2 gas stove AC power, single phase should not exceed the rated voltage of 250V.

5.1.3 In the highlands use gas stoves, the impact of altitude on actual heat load should be considered.

5.2.1 General requirements

5.2.1.1 gas stove parts should be safe, durable, damage and deformation occurs not affect the use in normal operation.

5.2.1.2 gas stove should be sufficient stability during normal use, should not have sliding and dumping phenomenon.

5.2.1.3 gas stove should be overturned overall configuration inclined 15 ° in any direction, parts should not fall.

5.2.1.4 packaging structure and a gas stove should be able to withstand the stacking storage and transportation, falling and vibrations.

5.2.1.5 gas stove structure asbestos timber should not be used.

5.2.1.6 eye lesions and eye lesions multi-burner stoves pot-shaped center distance should be sized.

5.2.1.7 binocular eye lesions and multiple lesions and eye lesions should have a tip end of the pot holder applied to at least, should take pot stable in normal operation, might Hinder use.

5.2.1.8 gas stove should be provided for each burner flame failure protection devices.

5.2.1.9 gas stove burners should be set not less than two independent gas valve, shown in Figure 1, FIG. Description. 1

--- gas inlet; A valve 2

--- main burner. NOTE. Valve A and valve B are two independent functions. 1 a schematic