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

GB 4706.29-2008

**Household and similar electrical appliances-safety - Particular
requirements for portable induction cooker**

家用和类似用途电器的安全 便携式电磁灶的特殊要求

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Table of Contents

Foreword	4
1 Scope	6
2 Normative references	7
3 Definitions	7
4 General requirements	9
5 General conditions of test	9
6 Classification	10
7 Signs and instructions	10
8 Protection against access to live parts	12
9 Starting of electric appliance	12
10 Input power and current	12
11 Heating	12
12 Blank	13
13 Leakage current and electrical strength at operating temperature	13
14 Transient overvoltage	13
15 Moisture resistance	13
16 Leakage current and electric strength	15
17 Overload protection of transformers and related circuits	15
18 Durability	16
19 Abnormal work	16
20 Stability and mechanical hazards	17
21 Mechanical strength	17
22 Structure	18
23 Internal wiring	20
24 Elements	20
25 Power connection and external cord	21
26 Terminals for external conductors	21
27 Grounding measures	22
28 Screws and connections.	22
29 Electrical clearances, creepage distances and solid insulation	22
30 Heat and flame resistance	22
31 Rust prevention	22

Foreword

All the contents of this part are mandatory. This part shall be used in conjunction with GB 4706.1-2005 "Household and similar electrical appliances - Safety - Part 1. General requirements" and its revisions. In this part, the part which is "applicable" indicates that the corresponding provisions in GB 4706.1-2005 apply to this part; the part which is "replaced" or "modified" shall be based on this part; the part which is "added" indicates that it shall, in addition to the corresponding provisions of GB 4706.1-2005, also comply with the provisions added in this part. This part replaces GB 4706.29-1992 "Safety of household and similar electrical appliances - Particular requirements for electromagnetic cookers". The main differences between this part and GB 4707.29-1992 are as follows: 1) The name of the part and the applicable product are different. This part is entitled "Particular requirements for portable induction cooker", which defines that the applicable products are applicable portable induction cooker, and the non-portable induction cooker shall be tested in accordance with the requirements of GB 4706.22; GB 4706.29-1992 also applies to non-portable induction cookers; 2) In this part, it adds the normative references in Clause 2; 3) In this part, it clearly defines the test container, load, test method, etc. (3.1.9); 4) In this part, it introduces relevant definitions in Clause 3 (3.101 ~ 3.104); 5) This part defines that portable induction cookers shall be tested in accordance with the requirements of motor-driven appliances (5.101). The provisions of GB 4706.29-1992 stipulate that Clause 10 shall be tested as the requirements of motor-driven appliances, and Clause 11 shall be tested as electric appliances. 6) Clause 13 requirements and test methods are different; 7) The requirements and test methods for Clause 15 overflow tests are different (15.2); 8) Clause 16 requirements and test methods are different; 9) In this part, it cancels the durability test (Clause 18 does not apply); Household and similar electrical appliances - Safety - Particular requirements for portable induction cooker

1 Scope

GB 4706.29-2008 is the Chinese national standard on household and similar electrical appliances-safety - particular requirements for portable induction cooker, in the field of domestic and commercial equipment, entertainment, sport. 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 31 December 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 February 2010. Classification: ICS 97.040.01, CCS Y63. 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 clause of GB 4706.1-2005 is replaced by the following. This part is applicable to portable induction cookers for household and similar purposes the rated voltage of which does not exceed 250 V. The electromagnetic heating part in gas and electric combined household and similar cookers shall comply with this part. Practically speaking, this part deals with the usual dangers posed by appliances that are encountered by all persons in and around the residence. However, this part generally does not consider. - The use of appliances by unsupervised young children and disabled persons; - Children play with the appliance.

Note 1. Note the following. - Some additional requirements may be required for appliances intended for use on vehicles, ships or aircraft; - In many countries, the additional requirements are regulated by the national health care department, the department responsible for labor protection, the national water supply department and similar departments. - For measurements involving electromagnetic compatibility and electromagnetic radiation, it requires to refer to relevant standards.

Note 2. This part does not apply to. - Appliances used in special environments, such as corrosive or explosive environments (dust, vapor or gas); - Appliances intended for commercial use (but some of the requirements can be referred to by these devices); - Microwave oven (GB 4706.21); The hotplate which heats at least one metal container by eddy current.

Note 1. Eddy currents are induced at the bottom of the vessel by the electromagnetic field of a coil.

3.102 Induction cookers A portable appliance equipped with at least one induction hotplate.

3.103 Cooking zone The indicated area on the surface of the appliance where the container is placed when heating the food.

Note. When a hotplate projects from the induction hotplate, the surface is the cooking area.

3.104 Touch control A controller that is started by the contact or proximity of a finger while the contact surface moves little or not at all.

4 General requirements

This clause of GB 4706.1-2005 is applicable.

5 General conditions of test

This clause of GB 4706.1-2005 is applicable except as follows:

Note 101. If the test of

15.101 is required, it needs to add three samples.

5.3 ADD. If it is clear from the structure of the appliance that a functional test is not more severe than the test of another function, the test of this function does not need to be carried out.

5.6 ADD. For appliances with appliance receptacles and appliances partially or completely immersed in water during cleaning, the instructions shall state that the connector must be removed from the appliance before cleaning and the appliance receptacle must be wiped dry before the appliance is used again. For appliances that use connectors with temperature controls, the instructions shall state that they must be used with the mating connector. For appliances intended for outdoor use, the instructions shall include the following. - Appliances suitable for outdoor use; - It is necessary to check the power cord regularly for damage. Do not use the appliance if the power cord is damaged. - The appliance must be powered by a residual current breaker (RCD) rated at no more than 30 mA; - The appliance shall be connected to a socket with a grounding pin (for category I appliances). For appliances with non-working accessible metal surfaces that have a temperature rise of more than 90 K as mentioned in clause 11, the instructions shall include the following. During the operation of the appliance, certain surfaces are very hot. If the appliance is marked with the symbol of IEC 60417-5041 (DB. 2002-10), the instructions shall indicate that the surface will become hot during use. If the surface of the induction hotplate surface that protects live parts is made of glass or similar fragile material, its instructions for use shall include the following warning. Warning. If the surface is cracked, turn off the appliance to avoid possible electric shock. The instructions for use of the appliance shall include the following. Metal objects such as knives, forks, spoons, and lids shall not be placed on the surface of the cooking area as they may become hot.

7.14 ADD. In the symbol of IEC 60417-5041 (DB.2002-10), the height of the triangle shall be at least 12 mm.

7.15 ADD. The test shall be carried out four times or more, and then the electric strength test of

16.3 shall be carried out. The test voltage shall be as specified in Table 4. After the fifth immersion, the appliance with the largest leakage current shall be dismantled for inspection. There shall be no water traces on the insulation surface that cause electrical clearances and creepage distances less than the values specified in clause 29. The remaining two samples work at

1.06 times rated voltage for 240 hours. After completing this cycle, the connector is removed or the appliance power is disconnected to repeat the test. Then the electric strength test of

16.3 is performed. The test voltage is as specified in Table 4. There shall be no water traces on the insulation surface that cause electrical clearances and creepage distances less than the values specified in clause 29.