

Translated English of Chinese Standard: GB4706.10-2008

www.ChineseStandard.net → Buy True-PDF → Auto-delivery.

Sales@ChineseStandard.net

GB

NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 97.170

Y 64

GB 4706.10-2008 / IEC 60335-2-32:2005

Replacing GB 4706.10-2003

**Household and Similar Electrical Appliances - Safety -
Particular Requirements for Massage Appliances**

(IEC 60335-2-32:2005, IDT)

家用和类似用途电器的安全 按摩器具的特殊要求

Issued on: December 15, 2008

Implemented on: January 01, 2010

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

Standardization Administration of PRC.

Table of Contents

Foreword	4
IEC Foreword	6
1 Scope	10
2 Normative References.....	11
3 Definitions.....	11
4 General Requirement.....	12
5 General Conditions for the Tests	12
6 Classification	12
7 Marking and Instructions	13
8 Protection against Access to Live Parts	13
9 Starting of Motor-Operated Appliances	13
10 Power Input and Current	13
11 Heating	13
12 Void	14
13 Leakage Current and Electric Strength at Operating Temperature	14
14 Transient Over-Voltages.....	14
15 Moisture Resistance.....	14
16 Leakage Current and Electric Strength	15
17 Overload Protection of Transformers and Associated Circuits.....	15
18 Endurance	15
19 Abnormal Operation	15

20 Stability and Mechanical Hazards	16
21 Mechanical Strength.....	16
22 Construction	16
23 Internal Wiring	17
24 Components	17
25 Supply Connection and External Flexible Cords.....	17
26 Terminals for External Conductors	17
27 Provision for Earthing	17
28 Screws and Connections.....	17
29 Clearances, Creepage Distances and Solid Insulation	17
30 Resistance to Heat and Fire.....	18
31 Resistance to Rusting	18
32 Radiation, Toxicity and Similar Hazards	18
Annexes	19
Bibliography.....	19

Foreword

All the technical contents in this Part are mandatory.

GB 4706 *Household and Similar Electrical Appliances – Safety* consists of several parts; thereof, Part 1 belongs to General Requirements; while the rest are Particular Requirements.

This Part shall be used in conjunction with GB 4706.1-2005 *Household and Similar Electrical Appliances – Safety – Part 1: General Requirements*.

This Part equivalently adopts IEC 60335-2-32:2005 *Household and Similar Electrical Appliances – Safety – Part 2-32: Particular Requirements for Massage Appliances*. (English Version).

For the benefit of use, this Part makes the following editorial changes against the IEC 60335-2-32:

- a) Modify “Part 1” into “GB 4706.1-2005”;
- b) Use a decimal point “.” to replace the comma “,” acting as a decimal point.

This Part replaced GB 4706.10-2003 *Safety of Household and Similar Electrical Appliances – Particular Requirements for Massage Appliances*.

Compared with GB 4706.10-2003, this Part has the major differences as follows:

- Add the water filled foot massager in the scope, replace the contents of “usually unconsidered”; add new definitions.
- Add the parameters of open-cell polyether to 3.1.9; add the test requirements for the water filled foot massager.
- Cancel the 4.101 requirements in GB 4706.10-2003 (appliances shall be tested as the portable appliances except for those that is expected to fix on the frame under normal operation).
- Add a warning to the appliance with a water injection container in 7.12.
- Modify the “appliance with electric heating elements” in GB 4706.10-2003 into “combined appliance” in 11.2.
- Add the water temperature limit value in 11.8.
- Add requirements for Class-I stationary appliance with leakage current no greater than 0.75mA except for fixed appliances in 13.2.

- Add test requirements for water filled foot massager in 15.2.
- Add requirements for Class-I stationary appliance with leakage current no greater than 0.75mA except for fixed appliances in 16.2.
- Add the content of Clause 21 in GB 4706.10-2003 to 21.1.
- The addition contents in 25.7 are slightly different from those in GB 4706.10-2003.
- Add test requirements for water filled and gas in-flow appliances in 22.102.
- Add ISO 2439:1980 *Flexible Cellular Polymeric Materials - Determination of Hardness (Indentation Technique)* and ISO 13732-1 *Ergonomics of the Thermal Environment – Methods for the Assessment of Human Responses to Contact with Surfaces – Part 1: Hot Surfaces* in Bibliography.

This Part was proposed by China Light Industry Council.

This Part shall be under the jurisdiction of National Technical Committee for Standardization of Household Electrical Appliances (SAC/TC 46).

Drafting organizations of this Part: China Household Electrical Appliances Research Institute; Xiamen Comfort Science & Technology (Group) Co., Ltd.; Shanghai Rongtai Fitness Tech. Development Co., Ltd.; Foshan Supervision Testing Center of Quality and metrology; and Midea Group Co., Ltd.

Chief drafting staffs of this Part: Ma Dejun, Zhang Xudong, Lin Qi, Shu Xiaohong, Huang Huizhen, Wu Xiaolin, Du Xin, and Deng Zhe.

The historical editions replaced by this Standard are as follows:

- GB 4706.10-1986, GB 4706.10-1993, GB 4706.10-2003.

Household and Similar Electrical Appliances - Safety - Particular Requirements for Massage Appliances

1 Scope

This clause of GB 4706.1-2005 is replaced by the following.

This International Standard deals with the safety of electric massage appliances for household and similar purposes, their rated voltage being not more than 250 V for single phase appliances and 480 V for other appliances.

NOTE 1: Examples of appliances within the scope of this standard are

- foot massagers;
- hand-held massagers;
- massage beds;
- massage belts;
- massage chairs;
- massage pads;
- water filled foot massagers.

Appliances not intended for normal household use but that nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops, in light industry and on farms, are within the scope of this Part.

NOTE 2: Examples of such appliances are those used in beauty parlors and fitness centers.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home.

However, in general, it does not take into account:

- persons (including children) whose:
 - physical, sensory or mental capabilities; or

This is an excerpt of the PDF (Some pages are marked off intentionally)

Full-copy PDF can be purchased from 1 of 2 websites:

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

----- The End -----