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

GB 4706.19-2008

**Household and similar electrical appliances -- Safety --
Particular requirements for heating liquids
(English Translation)**

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Foreword

All technical content of this Part is mandatory.

GB 4706 "Household and similar electrical appliances - Safety" consists of several parts. Part 1 is general requirements; the rest parts are special requirements.

This Part shall be used with GB 4706.1-2005 "Household and Similar Electrical Appliances - Safety - Part 1.General Requirements".

This Part equivalently adopts International Electrotechnical Commission IEC 60335-2-15.2005 "Household and similar electrical appliances - Safety - Part 2-

15 Particular requirements for appliances for heating liquids". (Edition 5.1,

2005-10). For easy use, this Part made the following editorial modifications to IEC 60335-2-15.

- a) modified "Part 1" as "GB 4706.1-2005";
- b) used a decimal point "." to replace the comma "," that is used as a decimal point.

This Part replaces GB 4706.19-2004 "Safety of household and similar electrical appliances - Particular requirements for appliances of heating liquids".

Compared with GB 4706.19-2004, the main differences in this Part are as follows.

- modified NOTE 105 in the scope. storage water heaters (GB 4706.12), pressure sterilizers; added. humidifiers for household and similar use (GB 4706.48);

- added thermal pots, urns in article 3.1.9.101;
- modified NOTE 101 in 5.2.If the test of 15.101 has to be carried out, three additional samples are required;
- modified 7.1 as. "unless they cannot be filled beyond their rated capacity";
- added the following in 7.12.For espresso coffee-makers incorporating a pressurized reservoir filled by the user, the instructions shall contain information for the safe refilling of the water reservoir and the substance of the following.

WARNING. The filling aperture must not be opened during use.

- added the following in 15.2.For steam sterilizers, replace the penultimate paragraph of this subclause of GB 4706.1-2005 by the following.

Steam sterilizers are placed on a horizontal surface and 30 mL of water containing approximately 1% NaCl is poured onto the top rim in the most unfavorable place. The solution is poured steadily through a tube having an inner diameter of 8 mm over a period of 2 s, the lower end of the tube being 200 mm above the appliance.

NOTE: A schematic representation of the test arrangement is shown in Figure 101.

Addition. Kettles are then filled to rated capacity with water. They are placed on a plane inclined at an angle of 20° to the horizontal with their spout facing up the slope of the inclined plane. Water shall not be discharged from the kettle.

- in 15.101, modified. "They are then completely immersed in water containing approximately 1% NaCl and having a temperature between 10°C and 25°C";
- in 19.7, modification [Translator note. in the text, it is "19.7 Addition"].
"Espresso coffee-makers incorporating a pump are operated for a period of 5 min";

- in 19.102, added. " NOTE. Subclause 19.13 is applicable";
- in 22.110, added. Espresso coffee-makers, incorporating a pressurized reservoir filled by the user, shall be constructed so that there is no spillage of water or sudden jets of steam or hot water likely to expose the user to a hazard when the appliance is used in accordance with the instructions. When removing the filling cap of the pressurized reservoir, before the cap is removed completely, the pressure shall be relieved in a controlled manner in order to avoid the emission of jets of steam or hot water that are likely to expose the user to a hazard.

Compliance is checked by inspection during the test of Clause 11 and by removing the filling cap at the end of the test.

- in 29.2, added. The microenvironment is pollution degree 3 if the insulation can be polluted by condensation from steam produced during normal use of the appliance.

This Part was proposed by China National Light Industry Council.

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

Household and similar electrical appliances - Safety -

Particular requirements for heating liquids

1 Scope

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

This Part deals with the safety of electrical appliances for heating liquids for household and similar purposes, their rated voltage being not more than 250 V.

NOTE 101: Some appliances may be used for heating food.

NOTE 102: Examples of appliances that are within the scope of this Part are

- coffee-makers;
- cooking pans;
- egg boilers;