

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 1  
AMENDEMENT 1

**Household and similar electrical appliances – Safety –  
Part 2-32: Particular requirements for massage appliances**

**Appareils électrodomestiques et analogues – Sécurité –  
Partie 2-32: Règles particulières pour les appareils de massage**

[IEC 60335-2-32:2002/AMD1:2008](https://standards.iteh.ai/catalog/standards/iec/60335-2-32-2002/AMD1:2008)

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INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

PRICE CODE  
CODE PRIX

**D**

## FOREWORD

This amendment has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

The text of this amendment is based on the following documents:

FDIS	Report on voting
61/3421/FDIS	61/3446/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this amendment be adopted for implementation nationally not earlier than 12 months from the date of its publication.

IEC 60335-2-32:2002/AMD1:2008

## INTRODUCTION

*Replace the second sentence of the second paragraph by the following:*

It also covers abnormal situations that can be expected in practice and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

*Replace the fifth paragraph by the following:*

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 1 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

NOTE 2 Horizontal and generic standards covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards. For example, in the case of temperature requirements for surfaces on many appliances, generic standards, such as ISO 13732-1 for hot surfaces, are not applicable in addition to Part 1 or part 2 standards.

## 1 Scope

Add the following to Note 101 as a new second dashed item.

- water filled foot massagers;

Replace the two dashed items in the fourth paragraph by the following:

- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledgeprevents them from using the appliance safely without supervision or instruction;
- children playing with the appliance.

## 3 Definitions

3.1.9 Add the following:

Foot massage appliances that use water are filled with water at a temperature of  $40\text{ °C} \pm 2\text{ °C}$ .

## 7 Marking and instructions

7.12 Add the following:

The instructions for appliances having a liquid container that is filled with water shall include the substance of the following:

If water leaks from the appliance, the appliance should no longer be used.

## 11 Heating

11.8 Add the following:

The water temperature at the middle of the water volume shall not exceed  $50\text{ °C}$ .

## 15 Moisture resistance

Replace the text by the following:

This clause of Part 1 is applicable except as follows.

15.2 Addition:

Water filled foot massagers are completely filled with water containing approximately 1 % NaCl and are then emptied within 30 s by being tilted or overturned in the most unfavourable way.

## 21 Mechanical strength

Replace "Addition:" by "21.1 Addition:".

## 22 Construction

*Add the following new subclause:*

**22.102** Appliances that use water and in which air is circulated shall be constructed so that the water cannot penetrate into the motor and come into contact with **live parts** or **basic insulation**.

*Compliance is checked by the following test.*

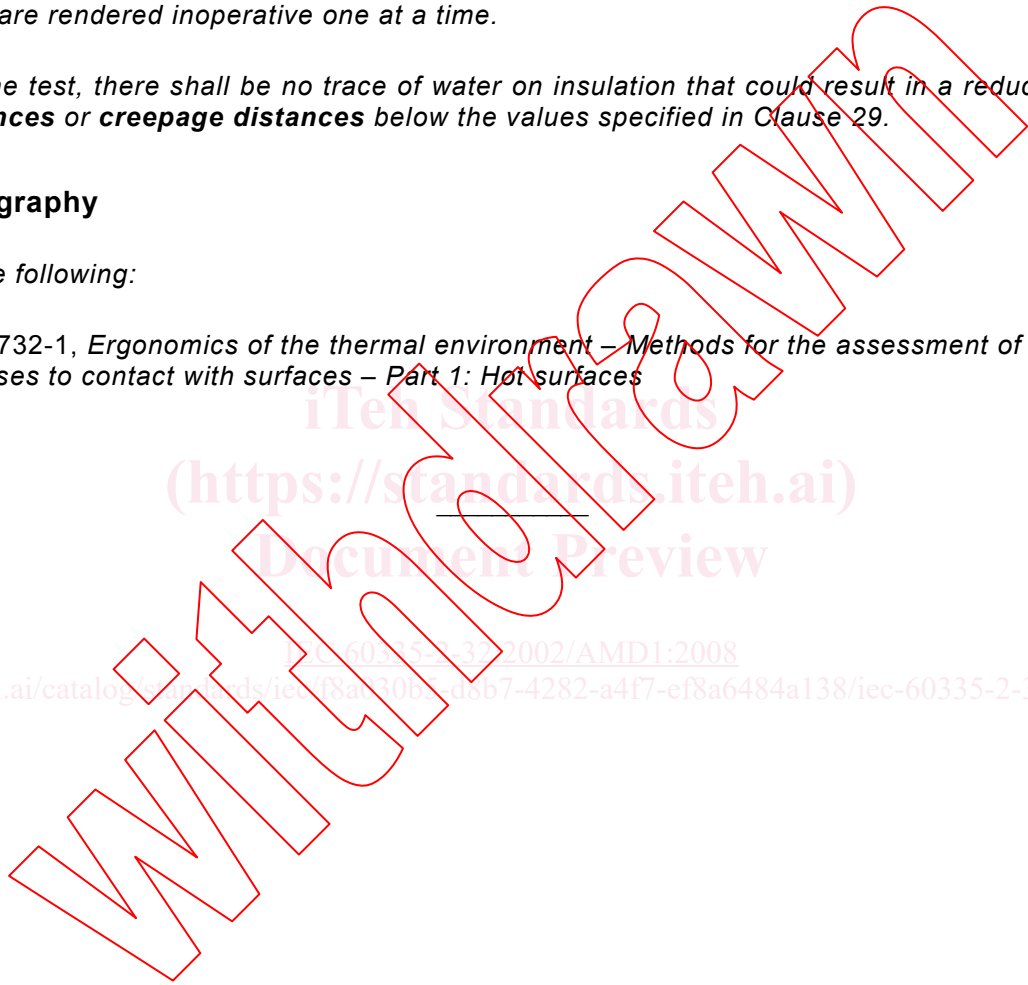
*The overflow outlet is blocked and the appliance is filled until water overflows. Non-return valves are rendered inoperative one at a time.*

*After the test, there shall be no trace of water on insulation that could result in a reduction of clearances or creepage distances below the values specified in Clause 29.*

## Bibliography

*Add the following:*

ISO 13732-1, *Ergonomics of the thermal environment – Methods for the assessment of human responses to contact with surfaces – Part 1: Hot surfaces*



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