

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Household and similar electrical appliances – Safety –  
Part 2-64: Particular requirements for commercial electric kitchen machines**

**Appareils électrodomestiques et analogues – Sécurité –  
Partie 2-64: Exigences particulières pour les machines de cuisine électriques  
à usage commercial**

[IEC 60335-2-64:2021](https://standards.iteh.ai/iec/60335-2-64/2021)

<https://standards.iteh.ai/catalog/standards/iec/42c1e1a7-00f9-4cf4-82c5-5398e2fadb94/iec-60335-2-64-2021>



## THIS PUBLICATION IS COPYRIGHT PROTECTED

Copyright © 2021 IEC, Geneva, Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester. If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

Droits de reproduction réservés. Sauf indication contraire, aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'IEC ou du Comité national de l'IEC du pays du demandeur. Si vous avez des questions sur le copyright de l'IEC ou si vous désirez obtenir des droits supplémentaires sur cette publication, utilisez les coordonnées ci-après ou contactez le Comité national de l'IEC de votre pays de résidence.

IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

### About the IEC

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

### About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigendum or an amendment might have been published.

#### IEC publications search - [webstore.iec.ch/advsearchform](http://webstore.iec.ch/advsearchform)

The advanced search enables to find IEC publications by a variety of criteria (reference number, text, technical committee, ...). It also gives information on projects, replaced and withdrawn publications.

#### IEC online collection - [oc.iec.ch](http://oc.iec.ch)

Discover our powerful search engine and read freely all the publications previews. With a subscription you will always have access to up to date content tailored to your needs.

#### IEC Just Published - [webstore.iec.ch/justpublished](http://webstore.iec.ch/justpublished)

Stay up to date on all new IEC publications. Just Published details all new publications released. Available online and once a month by email.

#### Electropedia - [www.electropedia.org](http://www.electropedia.org)

The world's leading online dictionary on electrotechnology, containing more than 22 000 terminological entries in English and French, with equivalent terms in 18 additional languages. Also known as the International Electrotechnical Vocabulary (IEV) online.

#### IEC Customer Service Centre - [webstore.iec.ch/csc](http://webstore.iec.ch/csc)

If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: [sales@iec.ch](mailto:sales@iec.ch).

### A propos de l'IEC

La Commission Electrotechnique Internationale (IEC) est la première organisation mondiale qui élabore et publie des Normes internationales pour tout ce qui a trait à l'électricité, à l'électronique et aux technologies apparentées.

### A propos des publications IEC

Le contenu technique des publications IEC est constamment revu. Veuillez vous assurer que vous possédez l'édition la plus récente, un corrigendum ou amendement peut avoir été publié.

#### Recherche de publications IEC -

[webstore.iec.ch/advsearchform](http://webstore.iec.ch/advsearchform)

La recherche avancée permet de trouver des publications IEC en utilisant différents critères (numéro de référence, texte, comité d'études, ...). Elle donne aussi des informations sur les projets et les publications remplacées ou retirées.

#### IEC online collection - [oc.iec.ch](http://oc.iec.ch)

Découvrez notre puissant moteur de recherche et consultez gratuitement tous les aperçus des publications. Avec un abonnement, vous aurez toujours accès à un contenu à jour adapté à vos besoins.

#### IEC Just Published - [webstore.iec.ch/justpublished](http://webstore.iec.ch/justpublished)

Restez informé sur les nouvelles publications IEC. Just Published détaille les nouvelles publications parues. Disponible en ligne et une fois par mois par email.

#### Electropedia - [www.electropedia.org](http://www.electropedia.org)

Le premier dictionnaire d'électrotechnologie en ligne au monde, avec plus de 22 000 articles terminologiques en anglais et en français, ainsi que les termes équivalents dans 16 langues additionnelles. Egalement appelé Vocabulaire Electrotechnique International (IEV) en ligne.

#### Service Clients - [webstore.iec.ch/csc](http://webstore.iec.ch/csc)

Si vous désirez nous donner des commentaires sur cette publication ou si vous avez des questions contactez-nous: [sales@iec.ch](mailto:sales@iec.ch).

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

---

**Household and similar electrical appliances – Safety –  
Part 2-64: Particular requirements for commercial electric kitchen machines**

**Appareils électrodomestiques et analogues – Sécurité –  
Partie 2-64: Exigences particulières pour les machines de cuisine électriques  
à usage commercial**

[IEC 60335-2-64:2021](https://standards.iteh.ai/standards/iec/42c1e1a7-00f9-4cf4-82c5-5398e2f1db94/iec-60335-2-64-2021)

<https://standards.iteh.ai/catalog/standards/iec/42c1e1a7-00f9-4cf4-82c5-5398e2f1db94/iec-60335-2-64-2021>

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

---

ICS 97.040.10

ISBN 978-2-8322-1045-1

**Warning! Make sure that you obtained this publication from an authorized distributor.  
Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.**

## CONTENTS

FOREWORD .....	4
INTRODUCTION .....	7
1 Scope .....	8
2 Normative references .....	9
3 Terms and definitions .....	9
4 General requirement .....	11
5 General conditions for the tests .....	11
6 Classification .....	11
7 Marking and instructions .....	12
8 Protection against access to live parts .....	14
9 Starting of motor-operated appliances .....	14
10 Power input and current .....	14
11 Heating .....	15
12 Charging metal-ion batteries .....	15
13 Leakage current and electric strength at operating temperature .....	15
14 Transient overvoltages .....	16
15 Moisture resistance .....	16
16 Leakage current and electric strength .....	17
17 Overload protection of transformers and associated circuits .....	17
18 Endurance .....	17
19 Abnormal operation .....	17
20 Stability and mechanical hazards .....	18
21 Mechanical strength .....	23
22 Construction .....	24
23 Internal wiring .....	26
24 Components .....	26
25 Supply connection and external flexible cords .....	26
26 Terminals for external conductors .....	27
27 Provision for earthing .....	27
28 Screws and connections .....	27
29 Clearances, creepage distances and solid insulation .....	28
30 Resistance to heat and fire .....	28
31 Resistance to rusting .....	29
32 Radiation, toxicity and similar hazards .....	29
Annexes .....	31
Annex B (normative) Battery-operated appliances, separable batteries and detachable batteries for battery-operated appliances .....	32
Annex P (informative) Guidance for the application of this standard to appliances used in tropical climates .....	33
Bibliography .....	34
Figure 101 – Splash apparatus .....	29

Figure 102 – Protection devices for slicing machines ..... 30

Table 101 – Assembling torques for screwed connections providing earthing continuity ..... 28

**iTeh Standards**  
**(<https://standards.iteh.ai>)**  
**Document Preview**

[IEC 60335-2-64:2021](https://standards.iteh.ai/catalog/standards/iec/42c1e1a7-00f9-4cf4-82c5-5398e2ffdb94/iec-60335-2-64-2021)

<https://standards.iteh.ai/catalog/standards/iec/42c1e1a7-00f9-4cf4-82c5-5398e2ffdb94/iec-60335-2-64-2021>

# INTERNATIONAL ELECTROTECHNICAL COMMISSION

---

## HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

### Part 2-64: Particular requirements for commercial electric kitchen machines

#### FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 60335-2-64 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2002, Amendment 1: 2007 and Amendment 2:2017. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) the text has been aligned with IEC 60335-1:2020;
- b) some notes have been converted to normative text, modified or deleted (1, 7.12, 9.101, 10.1, 11.7, 15.3, 20.2, 20.116, 20.117, 20.117.2, 20.117.3, 20.119, 22.101, 23.3, 27.2);
- c) clarifications to some test specifications have been made (9.101, 15.1.1, 15.2, 22.113);
- d) exclusion of appliances used in areas open to the public (Clause 1);

- e) clarification of requirements for battery-operated appliances (Clause 1, 11.7, B.3.1.1, B.11.1);
- f) relocation of cleaning instructions from 7.12.1 to 7.12;
- g) conciliation of the text of IEC 60335-2-64 with other standards under IEC/TC61/MT32.

The text of this International Standard is based on the following documents:

Draft	Report on voting
61/6372/FDIS	61/6422/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

A list of all parts of the IEC 60335 series, under the general title *Household and similar electrical appliances – Safety*, can be found on the IEC website.

This Part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of the sixth edition (2020) of that standard.

NOTE 1 When "Part 1" is mentioned in this standard, it refers to IEC 60335-1.

This Part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert that publication into the IEC standard: Particular requirements for commercial electric kitchen machines.

When a particular subclause of Part 1 is not mentioned in this Part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

NOTE 3 The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold .

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](https://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

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

NOTE 4 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 publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

The following differences exist in the countries indicated below.

- 6.1: Class 01 appliances are allowed if their rated voltage does not exceed 150 V (Japan).
- 13.2: Leakage current limits are different (Japan).
- 16.2: Leakage current limits are different (Japan).

**iTeh Standards**  
**(<https://standards.itih.ai>)**  
**Document Preview**

[IEC 60335-2-64:2021](#)

<https://standards.itih.ai/catalog/standards/iec/42c1e1a7-00f9-4cf4-82c5-5398e2fddb94/iec-60335-2-64-2021>



## INTRODUCTION

It has been assumed in the drafting of this International Standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

Guidance documents concerning the application of the safety requirements for appliances can be accessed via TC 61 supporting documents on the IEC website –

<https://www.iec.ch/tc61/supportingdocuments>

This information is given for the convenience of users of this International Standard and does not constitute a replacement for the normative text in this standard.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. 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.

This standard takes into account the requirements of IEC 60364 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules may differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another Part 2 of IEC 60335, the relevant Part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

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 publications, basic safety publications and group safety publications 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.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features that impair the level of safety covered by these requirements.

An appliance employing materials or having forms of construction differing from those detailed in the requirements of this standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be considered to comply with the standard.

NOTE 3 Standards dealing with non-safety aspects of household appliances are:

- IEC standards published by TC 59 concerning methods for measuring performance;
- CISPR 11, CISPR 14-1 and relevant IEC 61000-3 series standards concerning electromagnetic emissions;
- CISPR 14-2 concerning electromagnetic immunity;
- IEC standards published by TC 111 concerning environmental matters.

## HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

### Part 2-64: Particular requirements for commercial electric kitchen machines

#### 1 Scope

This clause of Part 1 is replaced by the following.

This part of IEC 60335 deals with the safety of electrically operated commercial **kitchen machines**, their **rated voltage** being not more than 250 V for single phase appliances connected between one phase and neutral, and 480 V for other appliances including direct current (DC) supplied appliances and **battery operated appliances**.

These appliances are not intended for household and similar purposes. They are used for commercial processing of food in areas not open to the public, for example in kitchens of restaurants, canteens, hospitals and in commercial enterprises such as bakeries and butchereries.

Examples of **kitchen machines** are

- mixers;
- liquid or food blenders;
- kneaders;
- beaters;
- shredders;
- graters;
- mincers;
- slicers;
- peelers;
- tin openers;
- coffee grinders;
- machines used for washing and/or drying food;
- portioning machines;
- pastry rollers;
- noodle strip cutters;
- food processors;
- beam mixers.

This standard also applies to appliances which, in order to facilitate transport, are supplied in several parts (sub-assemblies) which, when assembled at the place of installation, form a constructional unit without the use of any additional parts.

The electrical part of appliances making use of other forms of energy is also within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by these types of appliances.

Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements can be necessary;
- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities.

This standard does not apply to

- appliances designed exclusively for industrial purposes;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- appliances for continuous mass production of food;
- independent conveying equipment, such as food distribution belts.

## 2 Normative references

This clause of Part 1 is applicable except as follows.

*Addition:*

ISO 898-1, *Mechanical properties of fasteners made of carbon steel and alloy steel – Part 1: Bolts, screws and studs with specified property classes – Coarse thread and fine pitch thread*

ISO 3506-1, *Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 1: Bolts, screws and studs with specified grades and property classes*

ISO 3506-2, *Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 2: Nuts with specified grades and property classes*

ISO 3506-3, *Mechanical properties of corrosion-resistant stainless steel fasteners – Part 3: Set screws and similar fasteners not under tensile stress*

ISO 3506-4, *Mechanical properties of corrosion-resistant stainless steel fasteners – Part 4: Tapping screws*

## 3 Terms and definitions

This clause of Part 1 is applicable except as follows.

### 3.1 Definitions relating to physical characteristics

#### 3.1.4 *Addition:*

Note 101 to entry: The **rated power input** is the sum of the power inputs of all the individual elements in the appliance that can be on at one time; where there are several such combinations possible, that giving the highest power input is used in determining **the rated power input**.

### 3.1.9 Addition:

operation of the appliance under the following conditions:

The appliance is operated without load. The appliance is then loaded in appropriate steps, the supply voltage being maintained at its original value. For each step, steady conditions have to be established before increasing the load. This operation is repeated until just before an overload release operates, or until the steady condition with the highest temperature has been attained.

Note 101 to entry: The load may be achieved by using an electrical or mechanical brake.

Where it is not possible or is impractical to apply effectively an electrical or mechanical brake, the load is 115 % of the input measured when the appliance is operated without load at **rated voltage** and normal operating temperature, and with controls intended to be adjusted by the user set at maximum.

Note 102 to entry: Examples of such appliances are

- liquid blenders;
- slicers;
- peelers;
- coffee grinders;
- machines used for washing and/or drying food;
- portioning machines.

## 3.6 Definitions relating to parts of an appliance

### 3.6.101

#### **guard plate**

plate similar to a slice thickness plate, fitted to machines with automatic product feeding

### 3.6.102

#### **product holder**

support for the product to be sliced [IEC 60335-2-64:2021](https://standards.iteh.ai/catalog/standards/iec/42c1e1a7-00f9-4cf4-82c5-5398e2fddb94/iec-60335-2-64-2021)

<https://standards.iteh.ai/catalog/standards/iec/42c1e1a7-00f9-4cf4-82c5-5398e2fddb94/iec-60335-2-64-2021>

Note 1 to entry: The **product holder** can be equipped with a **pusher** or a **feed carriage** and/or a clamping device

### 3.6.103

#### **sliding feed table**

device that supports the **product holder** and allows it to move forwards and backwards

### 3.6.104

#### **feed carriage**

device on which the product is placed and that slides on top of the **product holder** in order to move the product towards the blade

### 3.6.105

#### **pusher**

device used to move the product along the **product holder** against the thickness plate

### 3.6.106

#### **last slice device**

plate with which the last portion of the product is fed to the cutting blade

Note 1 to entry: The plate can be fitted on the **pusher**, clamping device or **feed carriage**.

## 3.8 Definitions relating to miscellaneous matters

### 3.8.101

#### **indicated level**

mark on the appliance to indicate the maximum liquid level for correct operation

**3.8.102****installation wall**

special fixed construction containing supply facilities for appliances installed in conjunction with it

**4 General requirement**

This clause of Part 1 is applicable.

**5 General conditions for the tests**

This clause of Part 1 is applicable except as follows.

**5.10 Addition:**

*Appliances intended for installation in a bank of other appliances and appliances intended to be fixed to an **installation wall** are enclosed to obtain protection against electric shock and harmful ingress of water equivalent to that obtained when installed in accordance with the instructions provided with the appliance.*

NOTE Appropriate enclosures or additional appliances can be needed for test purposes.

**5.101** *Appliances are tested as **heating appliances** when during a mode of operation electrical heaters are energized. If no electrical heaters are energized, the appliances are tested as **motor-operated appliances**.*

**5.102** *Appliances, when assembled in combination with or incorporating other appliances, are tested in accordance with the requirements of this standard. The other appliances are operated simultaneously in accordance with the requirements of the relevant standards.*

**6 Classification**

This clause of Part 1 is applicable except as follows.

**6.1 Replacement:**

**Hand-held appliances** shall be **class II** or **class III** with respect to protection against electric shock. Other appliances shall be **class I**, **class II** or **class III** with respect to protection against electric shock.

*Compliance is checked by inspection and by the relevant tests.*

**6.2 Addition:**

Appliances shall be at least IPX1 with respect to protection against harmful ingress of water.

## 7 Marking and instructions

This clause of Part 1 is applicable except as follows.

### 7.1 Addition:

If the appliance is marked with rated "on" and "off" periods, the marking shall correspond to normal use. The marking of the "on" period shall precede the marking of the "off" period, both markings being separated by an oblique stroke.

If the reversal of a motor could cause a hazard, then the direction of rotation should be clearly and visibly indicated on the motor, if the direction of rotation depends on the way the motor is connected to the supply.

### 7.12 Addition:

The instructions for use shall include the operating times and speed settings for accessories, unless this information is marked on the appliance.

The instructions for use shall warn against misuse, and shall state that care is needed when handling cutting blades during cleaning.

Instructions for **user maintenance**, for example cleaning, shall also be given. They shall include a statement that the appliance is not to be cleaned with a water jet or a steam cleaner. The instructions for use shall contain instructions for cleaning of all surfaces coming into contact with food during normal use.

Operating instructions included in the operating manual shall clearly indicate how to use particular or special safeguards provided with the appliance, and shall draw the attention of the user to any remaining hazards and give information about preventative measures to be taken by the user for the safe use of the appliance.

NOTE 101 Examples of appliances with remaining hazards are those that are not subjected to the test with the test probe in 20.2.

Information shall also be given about the correct assembly and safe use of accessories provided with the appliance and, if relevant, about possible hazards that might arise when using accessories other than those provided with the appliance. The instructions for use shall warn the user to use a suitable bowl with attachable accessories such as egg beaters and sieving machines, and shall indicate that the accessory must not project from the upper part of the bowl.

The instructions for use for hand-held blenders and whisks shall contain a warning against the use of these appliances when not in contact with the product.

The instructions for use for food processors shall state that care is needed when handling cutting blades, especially when removing the blades from the bowl, emptying the bowl and during cleaning.

The instructions for use for mincers, where the required safety at the discharge outlets depends entirely on perforated discs provided with the appliance, shall contain a warning against use of perforated discs with oval shaped holes or holes of a greater diameter.

The instructions for use for slicers shall give details for assembly and removal of blades and shall require that the slice thickness plate or **guard plate** shall be set to the zero position during the cleaning of the blade while still installed in the appliance.