INTERNATIONAL STANDARD

IEC 60745-2-12

Second edition 2003-02

Hand-held motor-operated electric tools – Safety –

Part 2-12:

Particular requirements for concrete vibrators

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PRICE CODE



INTERNATIONAL ELECTROTECHNICAL COMMISSION

HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS-SAFETY -

Part 2-12: Particular requirements for concrete vibrators

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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 the 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 National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
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International Standard IEC 60745-2-12 has been prepared by subcommittee 61F: Safety of hand-held, motor-operated electric tools, of IEC technical committee 61:Safety of household and similar electrical appliances.

This second edition cancels and replaces the first edition published in 1982, of which it constitutes a technical revision.

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

FDIS	Report on voting
61F/511/FDIS	61F/522/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This Part 2-12 is to be used in conjunction with the third edition of IEC 60745-1: Safety of hand-held motor-operated electric tools – Part 1: General requirements. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

NOTE in this standard, the following print types are used:

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

Subclauses, tables and figures which are additional to those in Part 1 are numbered starting from 101; additional annexes are lettered AA, BB, etc.

The committee has decided that the contents of this publication will remain unchanged until 2007. At this date, the publication will be

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

A bilingual version of this publication may be issued at a later date.

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HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS-SAFETY -

Part 2-12: Particular requirements for concrete vibrators

1 Scope

This clause of Part 1 is applicable except as follows:

1.1 Addition:

This standard applies to concrete vibrators.

2 Normative references

This clause of Part 1 is applicable.

3 Definitions

This clause of Part 1 is applicable, except as follows:

3.2.9 Replacement:

normal load

load obtained when the tool is operated continuously, the hose and vibrator bottle being attached to the tool as for normal use. During the operation the vibrator bottle is immersed centrally in a container filled with an amount of water corresponding to at least 50 times the volume of the vibrator bottle.

The dimensions of the container are such that the diameter is about 50 % of the height of the water inside the container.

The height of the container is such that no water can splash out during the test

Addition:

3.101

concrete vibrator

tool intended for compacting concrete. The active part (vibrator bottle) of the vibrator performs low-amplitude vibrations and is immersed into the mass of concrete to be vibrated. Concrete vibrators may be of one of the following designs:

- the motor and the vibrating mechanism are inside the vibrator bottle to which the part containing the mains switch is connected by means of a long flexible hose containing the interconnecting cable;
- the motor and the vibrating mechanism are inside the vibrator bottle to which a handle, comprising the part containing the mains switch, is fixed by means of a short rigid tube, these parts forming a constructional unit;
- the vibrator mechanism is only inside the vibrator bottle to which a separate portable unit, comprising the motor and the part containing the mains switch, is connected by means of a long flexible hose containing a flexible shaft