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Traditional Chinese medicine — General requirements of moxibustion devices

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National foreword

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**Traditional Chinese medicine —
General requirements of
moxibustion devices**

*Médecine traditionnelle chinoise — Exigences générales concernant
les dispositifs de moxibustion*



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Foreword

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The committee responsible for this document is ISO/TC 249, *Traditional Chinese medicine*.

Introduction

This International Standard specifies the general requirements for safety and quality of moxibustion devices, including the moxibustion materials used in such devices. The safety and quality of both moxibustion devices and materials are closely related to moxibustion safety and quality.

There is a wide variety of moxibustion devices and materials currently available commercially, but there are no standards guiding their manufacture and finishing. Increased interest and use of moxibustion, as well as growing patients' expectations and concerns regarding moxibustion safety and quality, have given rise to the need to improve safety and quality of moxibustion through implementation of an International Standard.

The primary aim of this International Standard is to ensure the safety and quality of moxibustion devices and materials.

[Annex A](#) gives guidance on the methods that can be used to determine the moxibustion temperature at the human body surface during treatment using the moxibustion device.

[Annex B](#) gives guidance on the method of artificial drying of mugwort leaves by heat.

Traditional Chinese medicine — General requirements of moxibustion devices

1 Scope

This International Standard specifies the general requirements for configuration, materials, performance and safety requirements of moxibustion devices. It also specifies the minimum requirements for moxibustion materials used in moxibustion devices.

It is applicable across a wide range of moxibustion devices that uses moxa floss as the main combustion material and can remain on or over the body throughout the moxibustion process. It is applicable to moxibustion devices for both single and repeated usage.

This International Standard does not apply to devices that imitate moxibustion, such as electro-moxibustion and infrared moxibustion devices that do not involve the use of moxa floss. It also does not apply to moxa floss used in direct moxibustion.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 10993-1, *Biological evaluation of medical devices — Part 1: Evaluation and testing within a risk management process*

ISO 15223-1, *Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied — Part 1: General requirements*

ISO/TS 10993-19, *Biological evaluation of medical devices — Part 19: Physico-chemical, morphological and topographical characterization of materials*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

moxibustion device

apparatus that uses moxa floss as the main combustion material and intended for single or repeated usage

EXAMPLE Moxibustion with tube is a type of moxibustion device, such as a short moxa roll with a cardboard base and a moxa tube (made of cardboard) that is single-use and developed as an alternative to direct moxibustion.

Note 1 to entry: Moxibustion device includes those accessories as defined by the manufacturers that are necessary to enable the normal use of the moxibustion device.

3.2

moxibustion material

combustible material comprising mainly moxa floss and used in moxibustion

3.3

body of moxibustion device

part of the moxibustion device that is used to hold moxibustion materials and remains on or over the human body throughout the moxibustion process

3.4
moxibustion temperature

temperature at the human body surface during treatment when using the moxibustion device

3.5
moxa floss

cotton-like material for moxibustion made from mugwort leaves

3.6
moxa stick

round long stick made of moxa floss, also called moxa roll

Note 1 to entry: Moxa sticks can be in the form of a pure moxa stick, medicinal moxa stick (with additives) or smokeless moxa stick.

3.7
medicinal moxa stick

moxibustion with the moxa roll made of moxa and various substances

3.8
fineness of moxa floss

weight of the starting material (mugwort leaves) to the weight of the final product (moxa floss) presented in the form of a ratio

4 Configuration

4.1 Structure

4.1.1 Size and shape

The sizes and shapes of moxibustion devices can be different to perform moxibustion at a single point or over an area of the human body surface.

4.1.2 Visual inspection

When inspected by normal or corrected-to-normal vision:

- a) the surface of the moxibustion device shall not have any obvious defects such as breakages, protrusions, dents or rust that could cause accidental cuts or injuries to the user;
- b) moxibustion devices for repeated use shall have a temperature-adjusting mechanism or other appropriate arrangement to maintain moxibustion at an appropriate temperature;
- c) except for moxibustion with tube, the body of the moxibustion device shall ensure that the removal of ash is easy, be well ventilated to facilitate combustion and it should also contain the following:
 - 1) a mounting base or support that can hold the stick (s) firmly;
 - 2) a barrier or other safety arrangement to prevent ash or ember from falling onto the surface of the human body.

4.2 Expression of dimensions

The moxibustion device shall be easy to manipulate in size and applicable to various parts of human body. The dimensions of the moxibustion device shall be expressed in centimetres and specified as length × breadth × height for a rectangular shaped device, or diameter × height for a circular shaped device.

EXAMPLE 1 For a rectangular device, 15 cm × 10 cm × 8 cm.

EXAMPLE 2 For a circular shaped device, \varnothing 4 cm \times 6 cm.

5 Materials

5.1 General

The materials of the moxibustion device in contact with the human body surface shall be assessed for their biological safety and physico-chemical, morphological and topographical (PMT) characteristics in accordance with ISO 10993-1 and ISO/TS 10993-19.

5.2 Body of moxibustion devices

The frame of moxibustion devices can be made of materials such as wood, plastic, metal or cardboard. It shall have properties of low flammability and be fire retardant to prevent fire hazards from occurring in moxibustion. The materials of the component of the moxibustion device that comes in contact with the human body surface shall have low thermal conductivity and shall not cause skin sensitivity or irritation.

5.3 Moxibustion materials

5.3.1 Moxa floss

5.3.1.1 Moxa floss shall be processed from mugwort leaves of the *Artemisia* genus, including *Artemisia argyi*, *Artemisia princeps*, *Artemisia vulgaris* and other *Artemisia* species that have proven to be equally suitable.

5.3.1.2 Moxa leaves shall be stored under a dry and well-ventilated environment for at least 1 year or stored for 3 months and be artificially dried by heating before processing into moxa floss.

5.3.1.3 The minimum fineness of moxa floss should be in the ratio of 3:1, where 3 kg of mugwort leaves is processed into 1 kg of moxa floss.

5.3.1.4 Moxa floss shall not contain any foreign matter, such as metal shavings, which may contaminate the moxa floss during production and processing.

5.3.1.5 The quality and safety of moxa floss can be determined by visual or physical inspection and the use of other inspection equipment such as a metal detector.

5.3.2 Moxa sticks

5.3.2.1 The external wrapping used for moxa sticks made using moxa floss shall be material manufactured from mulberry leaves or other combustible paper.

5.3.2.2 The external wrapping used for moxa sticks made using moxa floss shall meet the following requirements:

- a) to have a similar burning rate as moxa floss;
- b) not to emit any harmful substances during combustion;
- c) not be torn easily.

5.3.2.3 The adhesive material used in moxa sticks shall not be toxic or produce harmful substances during combustion.

6 Moxibustion temperature

6.1 General

The test methods to determine the moxibustion temperature are stated in [Annex A](#).

6.2 Moxibustion with tube

The maximum temperature shall not exceed 60 °C.

6.3 Moxibustion devices other than moxibustion with tube

Except for moxibustion with tube, the moxibustion temperature of the moxibustion device shall be adjustable and the maximum temperature achievable during use of the device shall not exceed 51 °C.

6.4 Moxibustion devices for repeated use

For moxibustion devices for repeated use, there shall be a temperature-adjusting mechanism to maintain the temperature under the user's thermal pain threshold.

7 Safety requirements

7.1 General

7.1.1 Moxibustion devices for repeated use shall have a barrier or other safety arrangement to prevent any ash, ember or spark from falling onto the human body surface.

7.1.2 The body of the moxibustion device shall be able to remain on or over the human body surface in a stable manner throughout the moxibustion process to prevent the device from falling over or being dislodged.

7.1.3 The materials of the part of moxibustion devices that come in contact with the human body surface shall have poor thermal conductivity to ensure the temperature is within the acceptance limits of the moxibustion recipient.

7.1.4 Moxibustion devices that remain on the human body surface shall be either for single use or repeated use. For repeated use, they shall have a disposable bottom or protective lining on the areas that come in contact with the human body surface to prevent any form of direct-contact infection or transmission.

7.2 Environmental protection

Necessary measures that can protect the environment shall be identified and employed. Moxibustion devices can include a protective installation, use better quality moxa floss or have additives added to the moxa floss to reduce the amount of smoke.

8 Packaging

8.1 Primary packaging

8.1.1 Moxibustion device and moxibustion materials shall be sealed in a primary package.

8.1.2 The storage of the primary package shall be in dry, clean and adequately ventilated conditions.

8.2 Secondary packaging

8.2.1 One or more primary packages shall be packaged in a secondary package for the moxibustion device and moxibustion materials.

8.2.2 The secondary package shall be sufficiently robust to protect the contents during handling, transport and storage.

9 Labelling

9.1 Primary label

The labels, symbols and information on the package shall comply with ISO 15223-1. The primary package shall be marked with at least the following information:

- a) the name, trade-mark or logo of the manufacturer and/or supplier of moxibustion device;
- b) a description of the contents of moxibustion device, including the designated metric size in accordance with [4.2](#);
- c) the lot number, prefixed by the word “LOT”, and/or date of manufacture of moxibustion device;
- d) the country of origin of mugwort leaves, year of harvesting of mugwort leaves and fineness of moxa floss;
- e) if the product is made by artificial drying by heating, replace the labelling of the year of harvesting of mugwort leaves with the labelling as “this product is artificially dried by heating”;
- f) if the country of origin of mugwort leaves is different from where the moxa material is processed and the product is made from more than 2 materials, label all countries of origin of mugwort leaves and label as “mixed product” instead of the year of harvesting.

9.2 Secondary label

The labels, symbols and information on the package shall comply with ISO 15223-1. The secondary package shall be marked with at least the following information:

- a) the name, address and trademark of the manufacturer and/or supplier of moxibustion device;
- b) a description of the contents of moxibustion device, including the designated metric size in accordance with [4.2](#);
- c) the lot number, prefixed by the word “LOT”, and/or date of manufacture of moxibustion device;
- d) the certified number of moxibustion device in accordance with the requirements of the state regulations;
- e) information for handling, storage and transport;
- f) warning to check the integrity of each primary package before use, such as “Do not use if package is damaged.”

10 Transport and storage

10.1 The transportation requirements shall comply with the order contract.

10.2 The moxibustion devices shall be stored in a clean, dry and well-ventilated environment. Keep out of direct sunlight, avoid storage in high temperature and high humidity environment. The moxibustion devices should have sufficient protection from accidental damage.

11 Instructions for use (to be provided by the manufacturer)

The following information shall be provided for each moxibustion device:

- a) instructions for safe performance of the moxibustion device, including storage and maintenance, to be provided by the manufacturer;
- b) parts list defining all significant components and accessories;
- c) advice for safe use of the moxibustion device:
 - 1) the maximum temperature that could be obtained during moxibustion;
 - 2) the conditions that are not suitable for moxibustion, such as “people with sensory disturbances or allergies to smoke should avoid using or exercise caution when using the moxibustion device”;
 - 3) moxibustion devices are not recommended to be used in an environment fitted with smoke alarms;
 - 4) the possibility that localized small blisters or skin irritation may appear even under routine or intended use of the moxibustion device and to obtain medical attention where appropriate;
 - 5) it is advised that the moxibustion device should be administered and used under the direction or supervision of a qualified practitioner.

Annex A (informative)

Test methods to determine the moxibustion temperature

A.1 General

Moxibustion temperature refers to the temperature at the human body surface during treatment using the moxibustion device. A change in the temperature is a direct reflection of the thermal characteristics of moxibustion and the heat profile exhibits dynamic changes throughout the moxibustion process. The temperature during moxibustion should be maintained between the perception of the onset of warmth and thermal comfort. The temperature during moxibustion should not reach thermal pain threshold at any area across the body.

A.2 Test method

A.2.1 Contact temperature measurement

A.2.1.1 Principle

The contact measurement method is to place the temperature sensor on the bottom of the moxibustion device that is in contact with the human body surface, such that the temperature sensor and the human body surface, are in their respective thermodynamic equilibrium states.

The purpose of this test is to determine the maximum moxibustion temperature achievable during intended use of the moxibustion device.

A.2.1.2 Apparatus and conditioning environment

The typical apparatus consists of a temperature sensor in the form of a digital thermometer or thermocouple. Temperature measurement should be conducted in a well-ventilated room at a temperature of (23 ± 2) °C and a relative humidity of (55 ± 5) % and shall be continuously monitored. The apparatus, test sample and test subject shall be conditioned in the same room at the aforementioned temperature conditions and relative humidity for a certain period of time until the condition is stabilized prior to testing.

A.2.1.3 Procedure

The temperature sensor is placed on the bottom of the moxibustion device that is in contact with the human body surface. The temperature corresponding to a thermal perception is monitored and recorded. The heat profile during moxibustion is also observed concurrently.

A.2.1.4 Advantages

The contact measurement method has the following advantages:

- a) high accuracy as the temperature sensor is in direct contact with the bottom of the moxibustion device, hence the reading is not affected by any medium;
- b) the process is simple and convenient.

A.2.1.5 Disadvantages

The temperature sensor needs to reach the same thermodynamic state as the bottom of the moxibustion device, which requires time for thermal conduction to occur. This may result in a delay in temperature measurement.

A.2.2 Temperature measurement by using skin phantom model

A.2.2.1 Principle

Temperature measurement method using skin phantom model is made with various materials such as agarose, gelatin and acrylamidehydrogel, etc. The temperature sensor is placed on the surface of the model or it could be buried in the model during moulding. The moxibustion device is then placed on the sensor to measure temperature.

The purpose of this test is to determine the maximum moxibustion temperature achievable during intended use of the moxibustion device.

A.2.2.2 Apparatus

The typical apparatus consists of a temperature sensor in the form of a digital thermometer or thermocouple that can be buried in the skin phantom model, automatic combustion device and sealed cage to minimize effect from draft.

Temperature measurement shall be conducted in a well-ventilated room at a temperature of (23 ± 2) °C and a relative humidity of (55 ± 5) % and shall be continuously monitored. The apparatus, test sample and model shall be conditioned in the same room at the aforementioned temperature conditions and relative humidity for a certain period of time until the condition is stabilized prior to testing. Care should be taken not to dry the skin phantom model during stabilizing.

A.2.2.3 Procedure

The tip of the temperature sensor is placed on the skin phantom model surface or buried in the model during moulding. The moxibustion device is then placed on the sensor. The temperature corresponding to a thermal perception is monitored and recorded. The heat profile during moxibustion is also observed concurrently.

The heat profile shall be calculated using the Formula (A.1):

$$\max Ts = \Delta T \rho \times \frac{S \rho \times D \rho}{S s \times D s} + Ts \quad (\text{A.1})$$

where

$\Delta T \rho$ is thermal change of phantom surface;

Ts is normal temperature of skin surface;

$\max Ts$ is maximum temperature of skin surface;

$S \rho$ is specific heat of phantom;

$S s$ is specific heat of skin = 3 500 J/(kg × °C);

$D \rho$ is density of phantom;

D_s is density of skin = 1,121 kg/m³.

A.2.2.4 Advantages

The skin phantom model method has the following advantages:

- a) more exact temperature can be measured because heat loss through thermocouple does not occur if the thermocouple is buried in the model;
- b) it is not invasive and will not cause burn injuries during testing because it is not being tested on the human body;
- c) the test does not involve human subjects and does not require ethics approval, thus it is easier as it requires only a few kinds of chemicals such as agarose to make the model;
- d) tissue phantom model is a widely used method in medical engineering experiments to substitute the human body.

A.2.2.5 Disadvantages

This test method contains a thermodynamic formula. The results for the moxibustion temperature may be erroneous if the thermal capacity of the skin phantom model is computed incorrectly.

A.3 Test report

The test report shall specify the following:

- a) the test method used;
- b) the operating conditions and any circumstances that may have influenced the results;
- c) the test result(s) obtained.

Annex B (informative)

Method of artificial drying of mugwort leaves by heat

B.1 General

There are two drying methods before further processing the crude mugwort leaves into moxa floss. This Annex describes procedures and reference values for artificially drying harvested mugwort material by heating. The process of artificially drying by heating is a common traditional process for manufacturing moxa floss and is widely used in Japan. This process prepares the mugwort leaves for processing into moxa floss by artificially heating in an equipped drying kiln/room. This process assures the vaporization of the volatile oil content in the mugwort leaves through heating the material under controlled conditions.

B.2 Method

B.2.1 Mugwort leaves are dried by exposure to radiant heat from the sun. The material should be stored in a dry and well-ventilated environment for at least 3 months.

B.2.2 The sun dried leaves are dried by uniform heat in a ventilated container which allows the heated air to circulate through the container. The dedicated drying kiln/room should be enclosed and insulated to ensure the specified constant ambient temperature.

B.3 Reference value of the dryness

The leaves following artificial drying should meet one of the following conditions: moisture content of the leaves is below 6 %, or the weight is below 96 % of the sun dried leaves. The common drying temperature and time is shown in [Table B.1](#).

Table B.1 — Drying temperature and time

Drying temperature (°C)	Drying time (hour)
≥50, ≤69	≥4
≥70, ≤89	≥3
≥90	≥1

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